



FIGURES

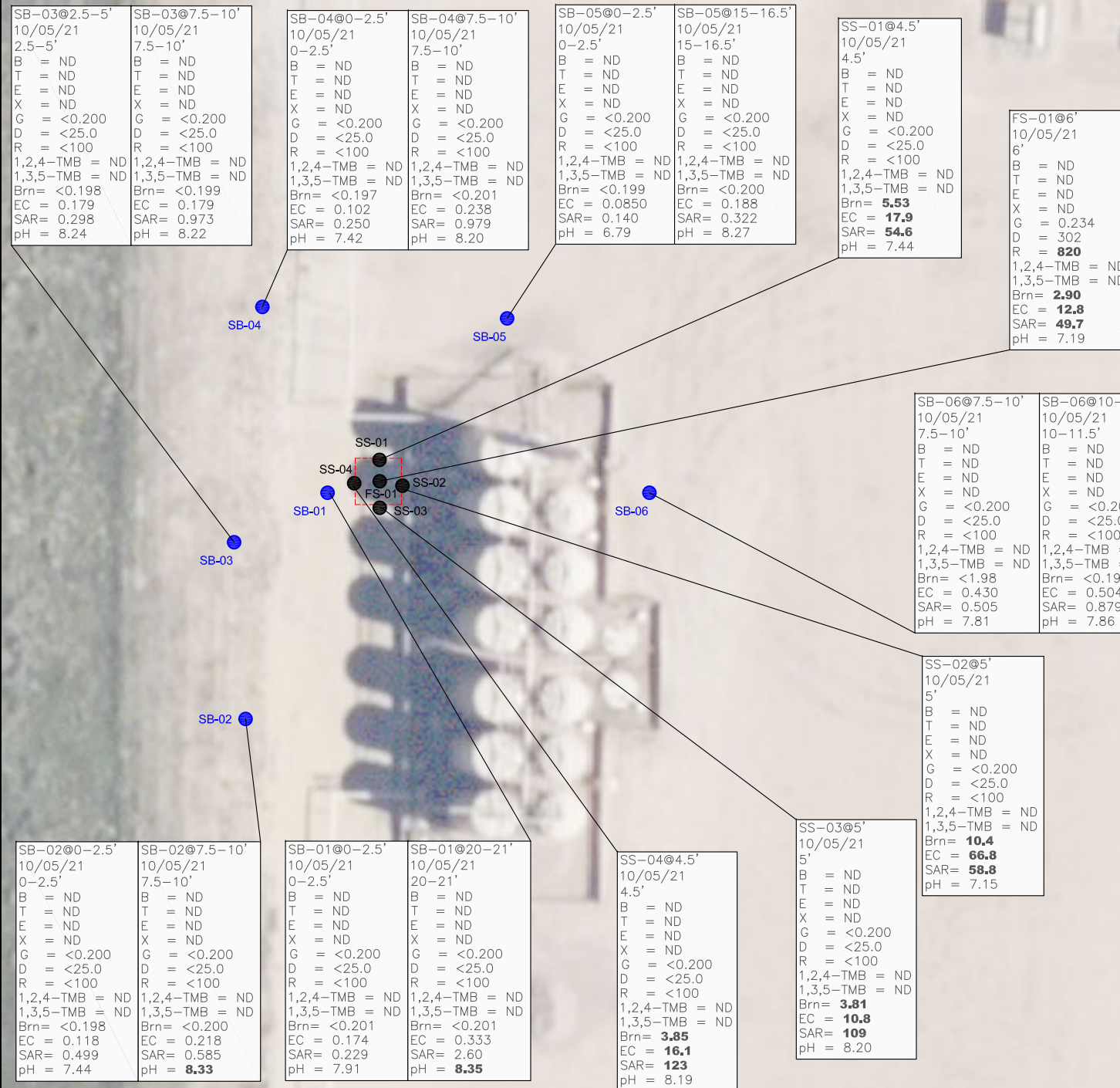
Figure 1: Soil Analytical Map

Figure 2: Polycyclic Aromatic Hydrocarbons Map

Figure 3: Confirmation Soil Analytical Map

Figure 4: Confirmation Polycyclic Aromatic Hydrocarbons Map

Figure 5: Metals in Soil Map



LEGEND

- INITIAL EXCAVATION/ASSESSMENT BOUNDARIES
- APPROXIMATE LOCATION OF EXCAVATION SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS
- APPROXIMATE SOIL BORING LOCATIONS

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

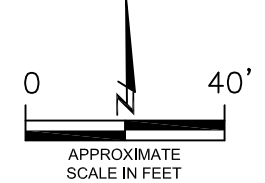
ND = NON-DETECT (<0.00200 mg/kg)

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

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

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

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION



SOIL ANALYTICAL MAP
ANTELOPE F-15 WEST
FLOWLINE RELEASE
40.406402 / -104.316163
NW1/4 NW1/4 SEC.15 T5N R62W 6PM
WELD COUNTY, COLORADO
LOCATION ID 429977
SPILL ID 480728

DATE:
12/22/21
DRAWN BY:
AMN
FIG.
NO. 1



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LEGEND

- INITIAL EXCAVATION/ASSESSMENT BOUNDARIES
- APPROXIMATE LOCATION OF EXCAVATION SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS
- APPROXIMATE SOIL BORING LOCATIONS

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

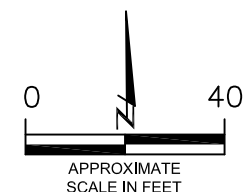
(BRL) = ALL CONCENTRATIONS BELOW REGULATORY LIMITS

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

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

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

COGCC - COLORADO OIL AND GAS CONSERVATION COMMISSION

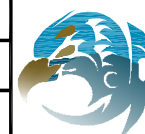


POLYCYCLIC AROMATIC HYDROCARBONS MAP
ANTELOPE F-15 WEST
FLOWLINE RELEASE
40.406402 / -104.316163
NW1/4 NW1/4 SEC.15 T5N R62W 6PM
WELD COUNTY, COLORADO
LOCATION ID 429977
SPILL ID 480728

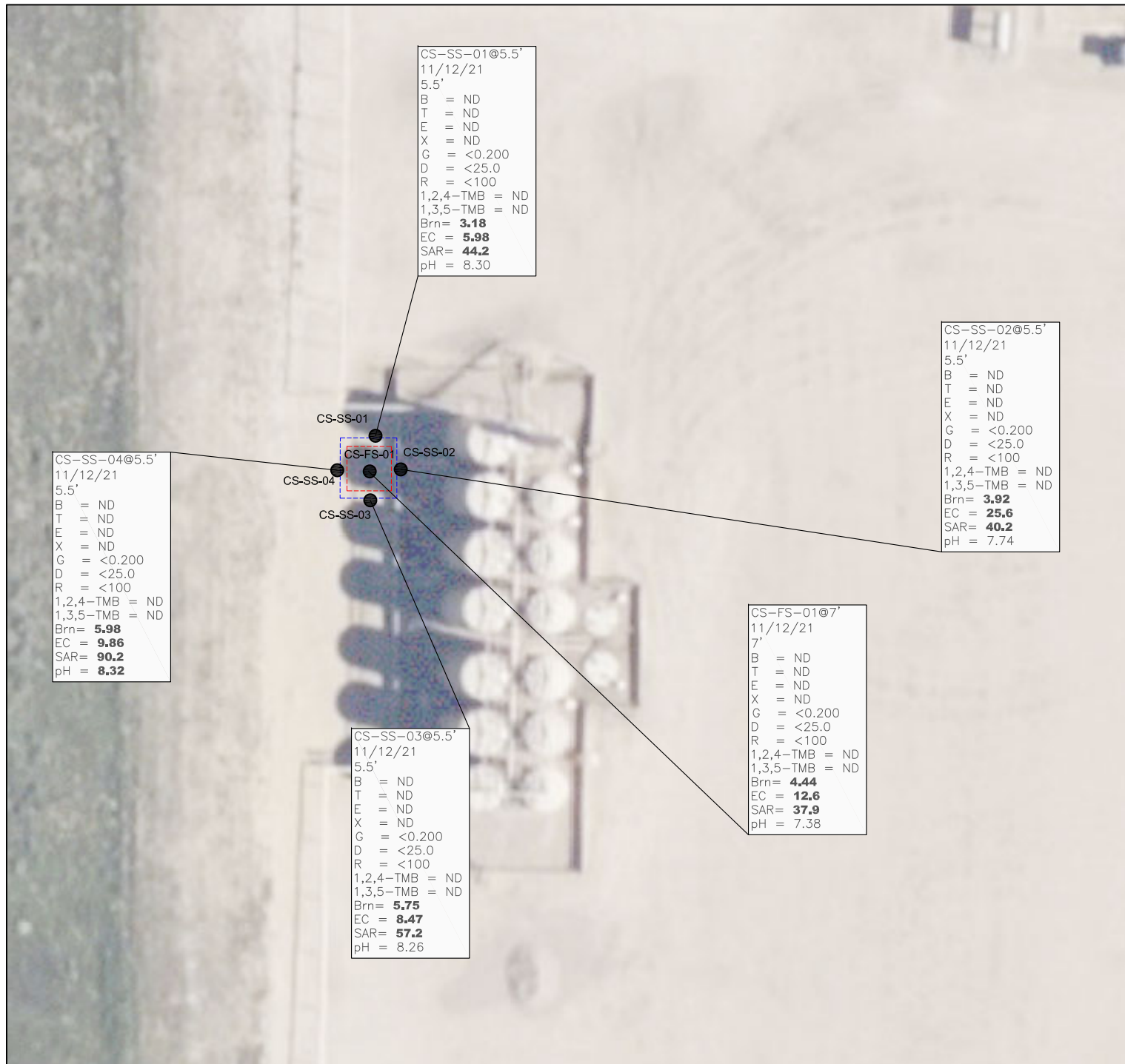
DATE:
12/22/21

DRAWN BY:
AMN

FIG.
NO. 2



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CS-SS-01@5.5'
11/12/21
5.5'
B = ND
T = ND
E = ND
X = ND
G = <0.200
D = <25.0
R = <100
1,2,4-TMB = ND
1,3,5-TMB = ND
Brn= **3.18**
EC = **5.98**
SAR= **44.2**
pH = 8.30

CS-SS-02@5.5'
11/12/21
5.5'
B = ND
T = ND
E = ND
X = ND
G = <0.200
D = <25.0
R = <100
1,2,4-TMB = ND
1,3,5-TMB = ND
Brn= **3.92**
EC = **25.6**
SAR= **40.2**
pH = 7.74

CS-SS-04@5.5'
11/12/21
5.5'
B = ND
T = ND
E = ND
X = ND
G = <0.200
D = <25.0
R = <100
1,2,4-TMB = ND
1,3,5-TMB = ND
Brn= **5.98**
EC = **9.86**
SAR= **90.2**
pH = **8.32**

CS-FS-01@7'
11/12/21
7'
B = ND
T = ND
E = ND
X = ND
G = <0.200
D = <25.0
R = <100
1,2,4-TMB = ND
1,3,5-TMB = ND
Brn= **4.44**
EC = **12.6**
SAR= **37.9**
pH = 7.38

CS-SS-03@5.5'
11/12/21
5.5'
B = ND
T = ND
E = ND
X = ND
G = <0.200
D = <25.0
R = <100
1,2,4-TMB = ND
1,3,5-TMB = ND
Brn= **5.75**
EC = **8.47**
SAR= **57.2**
pH = 8.26

LEGEND

- INITIAL EXCAVATION/ASSESSMENT BOUNDARIES
- ADDITIONAL EXCAVATION/ASSESSMENT BOUNDARIES

● APPROXIMATE LOCATION OF CONFIRMATION SOIL
CS-SS-01 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

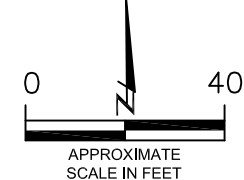
ND - NON-DETECT (<0.00200 mg/kg)

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

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

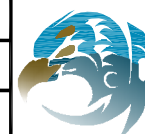
VALUES PRESENTED IN **BOLD** VALUES CONTAIN
CONCENTRATIONS EXCEEDING COGCC TABLE 915-1 VALUES

COGCC = COLORADO OIL AND GAS CONSERVATION
COMMISSION



CONFIRMATION SOIL ANALYTICAL MAP
ANTELOPE F-15 WEST
FLOWLINE RELEASE
40.406402 / -104.316163
NW1/4 NW1/4 SEC.15 T5N R62W 6PM
WELD COUNTY, COLORADO
LOCATION ID 429977
SPILL ID 480728

DATE:
12/22/21
DRAWN BY:
AMN
FIG.
NO. 3



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LEGEND

- INITIAL EXCAVATION/ASSESSMENT BOUNDARIES
- ADDITIONAL EXCAVATION/ASSESSMENT 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

ND = NON-DETECT

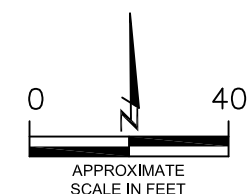
(BRL) = ALL CONCENTRATIONS BELOW REGULATORY LIMITS

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

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

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

COGCC – COLORADO OIL AND GAS CONSERVATION COMMISSION



CONFIRMATION POLYCYCLIC AROMATIC HYDROCARBONS MAP
ANTELOPE F-15 WEST
FLOWLINE RELEASE
40.406402 / -104.316163
NW1/4 NW1/4 SEC.15 T5N R62W 6PM
WELD COUNTY, COLORADO
LOCATION ID 429977
SPILL ID 480728

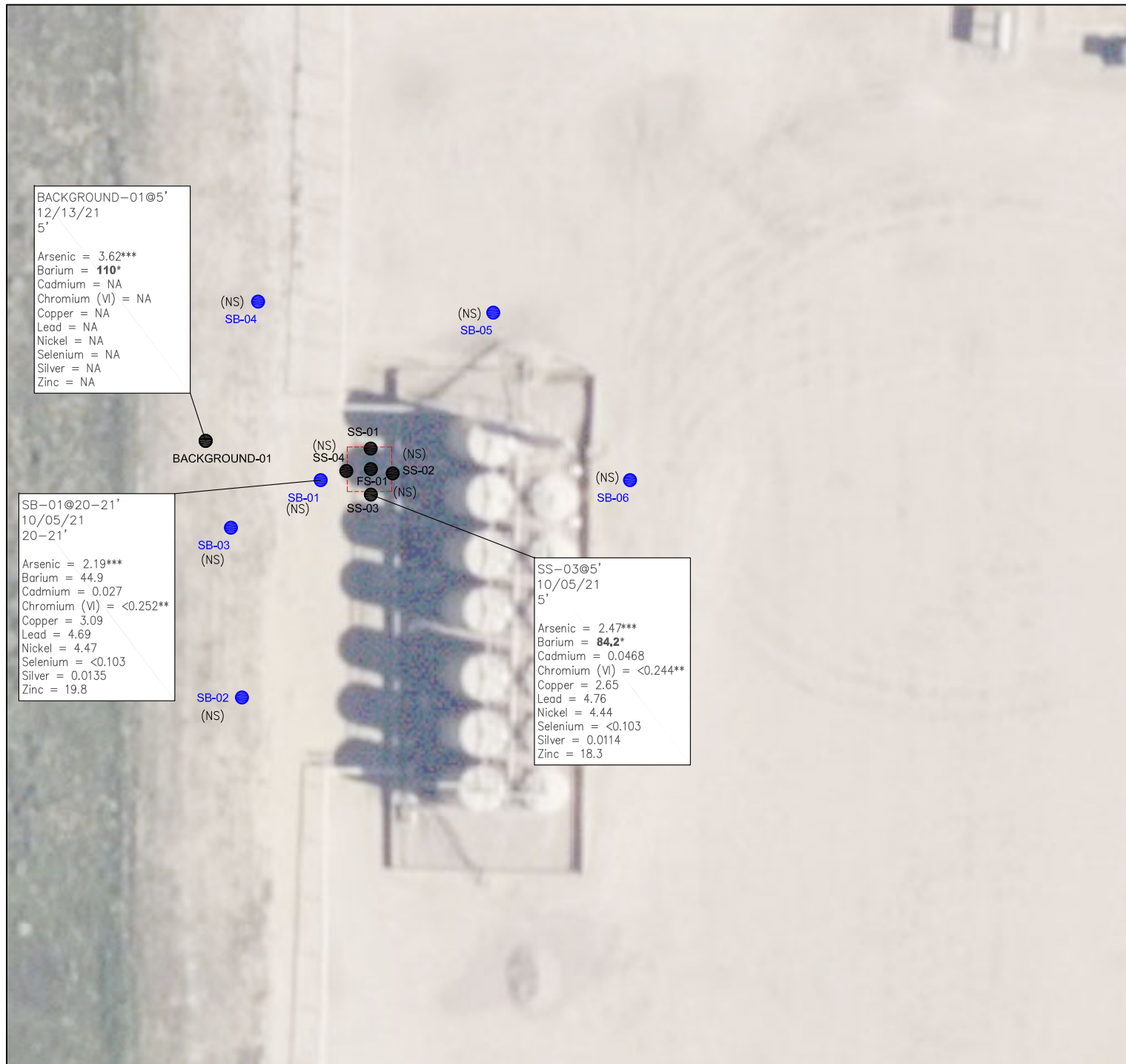
DATE:
12/22/21

DRAWN BY:
AMN

FIG.
NO. 4



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BACKGROUND-01@5'
12/13/21
5'

Arsenic = 3.62***
Barium = **110***
Cadmium = NA
Chromium (VI) = NA
Copper = NA
Lead = NA
Nickel = NA
Selenium = NA
Silver = NA
Zinc = NA

SB-01@20-21'
10/05/21
20-21'

Arsenic = 2.19***
Barium = 44.9
Cadmium = 0.027
Chromium (VI) = <0.252**
Copper = 3.09
Lead = 4.69
Nickel = 4.47
Selenium = <0.103
Silver = 0.0135
Zinc = 19.8

SS-03@5'
10/05/21
5'

Arsenic = 2.47***
Barium = **84.2***
Cadmium = 0.0468
Chromium (VI) = <0.244**
Copper = 2.65
Lead = 4.76
Nickel = 4.44
Selenium = <0.103
Silver = 0.0114
Zinc = 18.3

LEGEND

----- INITIAL EXCAVATION/ASSESSMENT BOUNDARIES

● APPROXIMATE LOCATION OF EXCAVATION SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS

● APPROXIMATE SOIL BORING LOCATIONS

PARAMETERS

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

mg/kg = MILLIGRAMS PER KILOGRAM
(NS) – NOT SAMPLED
NA – NOT ANALYZED

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

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

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

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


***ARSENIC IS NATURALLY OCCURRING IN COLORADO. LOCAL CLEAN-UP LEVEL (4.52 mg/kg) IS 1.25*BACKGROUND (3.62 mg/kg)

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

0 40'

APPROXIMATE SCALE IN FEET

METALS IN SOIL MAP
ANTELOPE F-15 WEST
FLOWLINE RELEASE
40.406402 / -104.316163
NW1/4 NW1/4 SEC.15 T5N R62W 6PM
WELD COUNTY, COLORADO
LOCATION ID 429977
SPILL ID 480728

DATE: 12/22/21	
DRAWN BY: AMN	
FIG. NO. 5	

EAGLE
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TABLES

Table 1: Photoionization Detector Reading Summary

Table 2: Soil Analytical Results Summary

Table 3: Polycyclic Aromatic Hydrocarbons Analytical Results Summary

Table 4: Metals Analytical Results Summary

TABLE 1
PHOTOIONIZATION DETECTOR READING SUMMARY
ANTELOPE F-15 WEST
PRODUCED WATER RELEASE
40.406402 / -104.316163
NW1/4 NW1/4 SEC.15 T5N R62W 6PM
WELD COUNTY, COLORADO
LOCATION ID 429977
SPILL ID 480728

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
SB-01 @ 0-2.5' (40.406380 / -104.316215)	10/05/21	0-2.5	36.8	Y
SB-01 @ 20-21' (40.406380 / -104.316215)	10/05/21	20-21	23.7	Y
SB-02 @ 0-2.5' (40.403226 / -104.316295)	10/05/21	0-2.5	26.7	Y
SB-02 @ 7.5-10' (40.403226 / -104.316295)	10/05/21	7.5-10	13.5	Y
SB-03 @ 2.5-5' (40.406351 / -104.316298)	10/05/21	2.5-5	18.5	Y
SB-03 @ 7.5-10' (40.406351 / -104.316298)	10/05/21	7.5-10	13.8	Y
SB-04 @ 0-2.5' (40.406506 / -104.316280)	10/05/21	0-2.5	14.9	Y
SB-04 @ 7.5-10' (40.406506 / -104.316280)	10/05/21	7.5-10	9.2	Y
SB-05 @ 0-2.5' (40.406500 / -104.316041)	10/05/21	0-2.5	16.2	Y
SB-05 @ 15-16.5' (40.406500 / -104.316041)	10/05/21	15-16.5	5.8	Y
SB-06 @ 7.5-10' (40.406388 / -104.315910)	10/05/21	7.5-10	14.1	Y
SB-06 @ 10-11.5' (40.406388 / -104.315910)	10/05/21	10-11.5	6.2	Y
SS-01 @ 4.5' (40.406406 / -104.316161)	10/05/21	4.5	39.4	Y
SS-02 @ 5' (40.406397 / -104.316155)	10/05/21	5	46.9	Y
SS-03 @ 5' (40.406387 / -104.316162)	10/05/21	5	79.5	Y
SB-04 @ 4.5' (40.406397 / -104.316169)	10/05/21	4.5	68.5	Y
FS-01 @ 6' (40.406395 / -104.316161)	10/05/21	6	63.2	Y
CS-SS-01 @ 5.5' (40.406410 / -104.316161)	11/12/21	5.5	0.0	Y
CS-SS-02 @ 5.5' (40.406395 / -104.316148)	11/12/21	5.5	0.1	Y
CS-SS-03 @ 5.5' (40.406380 / -104.316160)	11/12/21	5.5	2.6	Y
CS-SS-04 @ 5.5' (40.406395 / -104.316174)	11/12/21	5.5	1.4	Y
CS-FS-01 @ 7' (40.406397 / -104.316162)	11/12/21	7	1.5	Y
Background-01 @ 5' (40.406521 / -104.316319)	12/13/21	5	0.3	Y
(Y/N) = Yes or No ppm-v = parts per million by volume PID = photoionization detector				

TABLE 2
SOIL ANALYTICAL RESULTS SUMMARY
ANTELOPE F-15 WEST
PRODUCED WATER RELEASE
40.406402 / -104.316163
NW1/4 NW1/4 SEC.15 T5N R62W 6PM
WELD COUNTY, COLORADO
LOCATION ID 429977
SPILL ID 480728

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-RRO (mg/kg)	1,2,4- Trimethylbenzene (mg/kg)	1,3,5- Trimethylbenzene (mg/kg)	Boron (mg/L)	Specific Conductance (mmhos/cm)	pH (pH units)	SAR
COGCC Table 915-1 Residential Screening Levels				1.2	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	--	--	--	--
SB-01 @ 0-2.5' (40.406380 / -104.316215)	10/05/21	0-2.5	36.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	<0.201	0.174	7.91	0.229
SB-01 @ 20-21' (40.406380 / -104.316215)	10/05/21	20-21	23.7	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	<0.201	0.333	8.35	2.60
SB-02 @ 0-2.5' (40.403226 / -104.316295)	10/05/21	0-2.5	26.7	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	<0.198	0.118	7.44	0.499
SB-02 @ 7.5-10' (40.403226 / -104.316295)	10/05/21	7.5-10	13.5	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	<0.200	0.218	8.33	0.585
SB-03 @ 2.5-5' (40.406351 / -104.316298)	10/05/21	2.5-5	18.5	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	<0.198	0.179	8.24	0.298
SB-03 @ 7.5-10' (40.406351 / -104.316298)	10/05/21	7.5-10	13.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	<0.199	0.179	8.22	0.973
SB-04 @ 0-2.5' (40.406506 / -104.316280)	10/05/21	0-2.5	14.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	<0.197	0.102	7.42	0.250
SB-04 @ 7.5-10' (40.406506 / -104.316280)	10/05/21	7.5-10	9.2	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	<0.201	0.238	8.20	0.979
SB-05 @ 0-2.5' (40.406500 / -104.316041)	10/05/21	0-2.5	16.2	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	<0.199	0.0850	6.79	0.140
SB-05 @ 15-16.5' (40.406500 / -104.316041)	10/05/21	15-16.5	5.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	<0.200	0.188	8.27	0.322
SB-06 @ 7.5-10' (40.406388 / -104.315910)	10/05/21	7.5-10	14.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	<1.98	0.430	7.81	0.505
SB-06 @ 10-11.5' (40.406388 / -104.315910)	10/05/21	10-11.5	6.2	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	<0.199	0.504	7.86	0.879
SS-01 @ 4.5' (40.406406 / -104.316161)	10/05/21	4.5	39.4	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	5.53	17.9	7.44	54.6
SS-02 @ 5' (40.406397 / -104.316155)	10/05/21	5	46.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	10.4	66.8	7.15	58.8
SS-03 @ 5' (40.406387 / -104.316162)	10/05/21	5	79.5	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	3.81	10.8	8.20	109
SB-04 @ 4.5' (40.406397 / -104.316169)	10/05/21	4.5	68.5	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	3.85	16.1	8.19	123
FS-01 @ 6' (40.406395 / -104.316161)	10/05/21	6	63.2	<0.00200	<0.00200	<0.00200	<0.00200	0.234	302	820	<0.00200	<0.00200	2.90	12.8	7.19	49.7

TABLE 2
SOIL ANALYTICAL RESULTS SUMMARY
ANTELOPE F-15 WEST
PRODUCED WATER RELEASE
40.406402 / -104.316163
NW1/4 NW1/4 SEC.15 T5N R62W 6PM
WELD COUNTY, COLORADO
LOCATION ID 429977
SPILL ID 480728

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-RRO (mg/kg)	1,2,4- Trimethylbenzene (mg/kg)	1,3,5- Trimethylbenzene (mg/kg)	Boron (mg/L)	Specific Conductance (mmhos/cm)	pH (pH units)	SAR
COGCC Table 915-1 Residential Screening Levels				1.2	490	5.8	58	500			30	27	2	<4	6-8.3	<6
CS-SS-01 @ 5.5' (40.406410 / -104.316161)	11/12/21	5.5	0.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	3.18	5.98	8.30	44.2
CS-SS-02 @ 5.5' (40.406395 / -104.316148)	11/12/21	5.5	0.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	3.92	25.6	7.74	40.2
CS-SS-03 @ 5.5' (40.406380 / -104.316160)	11/12/21	5.5	2.6	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	5.75	8.47	8.26	57.2
CS-SS-04 @ 5.5' (40.406395 / -104.316174)	11/12/21	5.5	1.4	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	5.98	9.86	8.32	90.2
CS-FS-01 @ 7' (40.406397 / -104.316162)	11/12/21	7	1.5	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	4.44	12.6	7.38	37.9
COGCC = Colorado Oil and Gas Conservation Commission mg/kg = milligrams per kilogram TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics NA - Not Analyzed mmhos/cm = millimhos per centimeter TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics SAR = Sodium Adsorption Ratio TPH-RRO = Total Petroleum Hydrocarbons - Residual Range Organics ppm-v = parts per million by volume Note: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit. Note: Values presented in BOLD contained concentrations exceeding applicable COGCC Table 915-1 Regulatory Limits Note: Values presented in BOLD+ contained concentrations exceeding COGCC Table 915-1 Protection of Groundwater Soil Screening Levels																

TABLE 3
POLYCYCLIC AROMATIC HYDROCARBONS ANALYTICAL RESULTS SUMMARY
ANTELOPE F-15 WEST
PRODUCED WATER RELEASE
40.406402 / -104.316163
NW1/4 NW1/4 SEC.15 T5N R62W 6PM
WELD COUNTY, COLORADO
LOCATION ID 429977
SPILL ID 480728

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
SB-01 @ 0-2.5' (40.406380 / -104.316215)	10/05/21	0-2.5	36.8	<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
SB-01 @ 20-21' (40.406380 / -104.316215)	10/05/21	20-21	23.7	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000331	0.000448	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000407	<0.00067	<0.00067
SB-02 @ 0-2.5' (40.403226 / -104.316295)	10/05/21	0-2.5	26.7	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000307	0.000438	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
SB-02 @ 7.5-10' (40.403226 / -104.316295)	10/05/21	7.5-10	13.5	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000242	0.000369	<0.00067	0.00081	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
SB-03 @ 2.5-5' (40.406351 / -104.316298)	10/05/21	2.5-5	18.5	<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
SB-03 @ 7.5-10' (40.406351 / -104.316298)	10/05/21	7.5-10	13.8	<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
SB-04 @ 0-2.5' (40.406506 / -104.316280)	10/05/21	0-2.5	14.9	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000308	0.000402	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
SB-04 @ 7.5-10' (40.406506 / -104.316280)	10/05/21	7.5-10	9.2	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000308	0.000416	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
SB-05 @ 0-2.5' (40.406500 / -104.316041)	10/05/21	0-2.5	16.2	<0.00067	0.000554	<0.00067	<0.00067	<0.00067	<0.00067	0.00028	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000426	<0.00067	<0.00067
SB-05 @ 15-16.5' (40.406500 / -104.316041)	10/05/21	15-16.5	5.8	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000321	<0.00067	<0.00067
SB-06 @ 7.5-10' (40.6388 / -104.315910)	10/05/21	7.5-10	14.1	0.0035	0.00624	0.000537	<0.00067	<0.00067	0.00028	0.000348	<0.00067	0.000903	<0.00067	0.000488	0.00179	0.0003	0.00101	0.000773
SB-06 @ 10-11.5' (40.6388 / -104.315910)	10/05/21	10-11.5	6.2	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000216	0.000298	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
SS-01 @ 4.5' (40.406406 / -104.316161)	10/05/21	4.5	39.4	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000319	0.00042	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
SS-02 @ 5' (40.406397 / -104.316155)	10/05/21	5	46.9	0.00111	0.000862	<0.00067	<0.00067	<0.00067	<0.00067	0.000268	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
SS-03 @ 5' (40.406387 / -104.316162)	10/05/21	5	79.5	<0.00067	0.000511	<0.00067	<0.00067	<0.00067	0.000203	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000312	0.000355	<0.00067	<0.00067
SB-04 @ 4.5' (40.406397 / -104.316169)	10/05/21	4.5	68.5	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000201	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
FS-01 @ 6' (40.406395 / -104.316161)	10/05/21	6	63.2	0.0138*	0.00954	0.00116	0.000713	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000932	<0.00067	0.00192	0.00207
CS-SS-01 @ 5.5' (40.406410 / -104.316161)	11/12/21	5.5	0.0	0.000504	0.000841	0.000354	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000596	<0.00067	<0.00067	<0.00067	<0.00067	0.000601	<0.00067
CS-SS-02 @ 5.5' (40.406395 / -104.316148)	11/12/21	5.5	0.1	0.000397	0.000558	<0.00067	<0.00067	<0.00067	0.000363	<0.00067	<0.00067	0.00181	0.000385	<0.00067	<0.00067	<0.00067	<0.00067	0.00063
CS-SS-03 @ 5.5' (40.406380 / -104.316160)	11/12/21	5.5	2.6	<0.00067	<0.00067	<0.00067	<0.00067	0.00044	0.000574	0.00101	0.000691	0.000344	0.00157	<0.00067	<0.00067	0.0016	<0.00067	<0.00067
CS-SS-04 @ 5.5' (40.406395 / -104.316174)	11/12/21	5.5	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
CS-FS-01 @ 7' (40.406397 / -104.316162)	11/12/21	7	1.5	0.000451	0.000419	<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
mg/kg = milligrams per kilogram PID = Photoionization Detector
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 applicable COGCC Table 915-1 Regulatory Limits
Note: Values presented in **BOLD+*** contained concentrations exceeding COGCC Table 915-1 Protection of Groundwater Soil Screening Levels

TABLE 4
METALS ANALYTICAL RESULTS SUMMARY
ANTELOPE F-15 WEST
PRODUCED WATER RELEASE
40.406402 / -104.316163
NW1/4 NW1/4 SEC.15 T5N R62W 6PM
WELD COUNTY, COLORADO
LOCATION ID 429977
SPILL ID 480728

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			4.53***	--	--	0.1 to 1**	--	--	--	--	--	--
SB-01 @ 20-21' (40.406380 / -104.316215)	10/05/21	20-21	2.19***	44.9	0.027	<0.252	3.09	4.69	4.47	<0.25	0.0135	19.8
SS-03 @ 5' (40.406387 / -104.316162)	10/05/21	5	2.47***	84.2*	0.0468	<0.244	2.65	4.76	4.44	<0.25	0.0114	18.3
Background-01 @ 5' (40.406521 / -104.316319)	12/13/21	5	3.62***	110*	NA	NA	NA	NA	NA	NA	NA	NA
<p>COGCC = Colorado Oil and Gas Conservation Commission</p> <p>mg/kg = milligrams per kilogram</p> <p>Notes: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit or minimum detection levels.</p> <p>Values presented in BOLD contained concentrations exceeding applicable COGCC Table 915-1 Regulatory Limits</p> <p>Note: Values presented in BOLD** contained concentrations exceeding COGCC Table 915-1 Protection of Groundwater Soil Screening Levels</p> <p>**Achievable practical quantitative limits for Hexavalent Chromium in soils is in the range of 0.1 to 1 mg/kg.</p> <p>***Arsenic is naturally occurring in Colorado. Local "clean-up level" (4.53 mg/kg) is 1.25*Background (3.62 mg/kg)</p>												



ATTACHMENT A

Photolog

Antelope F-15 West

Location ID 429977

Spill ID 480728

Produced Water Release

October-November 2021



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Over-excavation / Confirmation Sampling – 11/12/21



← Looking southeast

Over-excavation of initial assessment boundaries/clean-up completed

No residual petroleum hydrocarbon staining or odor observed

Looking northwest →

Confirmation samples collected:

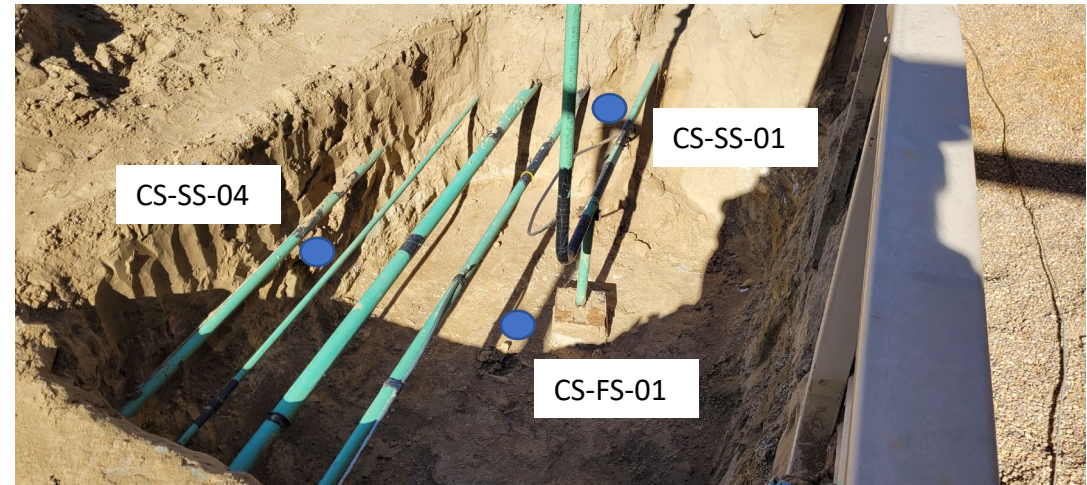
CS-SS-01 @ 5.5' – 0.0 ppm-v

CS-SS-02 @ 5.5' – 0.1 ppm-v

CS-SS-03 @ 5.5' – 2.6 ppm-v

CS-SS-04 @ 5.5' – 1.4 ppm-v

CS-FS-01 @ 7' – 1.5 ppm-v





ATTACHMENT B

Soil Boring Logs – SB-01 through SB-06

Boring Log/Well Completion Diagram: SB-01

PAGE 1 OF 1

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-11') silty SAND - brown, dry, loose to very dense, fine to medium grained, poorly-graded with ~10% silt, N/O, N/S					36.8	N/A		PVC stickup	Direct push refusal encountered at ~11'
	@4.5' - gray coloring, no odor	SM	DP	1	80	34.1				
5	@7.5' - rust staining ~2" thick					25.6	N/A		1" Dia. Sch. 40 PVC Riser	Solid stem auger utilized to advance boring to 20' - no samples collected from auger cuttings
			DP	2	90	30.4				
10	@11' direct push refusal (11-20') SAND/weathered Sandstone - brown, dry, very dense, fine grained, poorly-graded, N/O, N/S		DP	3	90	27.5	N/A		10/20 Silica Sand Pack	Direct push sample collected from 20-21' for BoB confirmation
			DP	4	80	26.6	N/A			
15		SP	Ss	1	--	--	N/A		1" Dia. Sch. 40 Slotted PVC (0.010")	Temporary monitoring well completed to confirm the absence of groundwater at the site
		SStr	Ss	2	--	--	N/A			
20	(20-21') silty SAND - brown, dry, lvery dense, fine to medium grained, poorly-graded with ~10% silt, N/O, N/S	SM	DP	5	50	23.7	N/A		1" End Cap	Ss - Solid stem DP - Direct Push HC - Hydrocarbon BoB - Bottom of Boring N/O - no odor N/S - no staining TOC - top of casing bgs - below ground surface
	BoB @ 21'									
25										
30										

START/COMPLETION DATE: 10/05/2021

SAND PACK INTERVAL (FEET): 9-21'

PROJECT: ANTELOPE F-15

BENTONITE/GROUT INTERVAL (FEET): 0-9'

LOGGED BY: TC

WELL SCREEN INTERVAL (FEET): 11-21'

DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE

WELL DIAMETER (INCHES): 1"

BORING DEPTH (FEET): 21

WELL DEPTH (FEET): 21

PID INSTRUMENT: MiniRAE 3000

TIME STARTED/COMPLETED: 1201/1241; 1400/1425

SAMPLE COLLECTION DEPTH (FT.)/TIME: 0-2.5/1204, 20-21/1422



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Boring Log/Well Completion Diagram: SB-02

PAGE 1 OF 1

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-10') silty SAND - brown, dry, loose to very dense, fine to medium grained, poorly-graded with ~10% silt, N/O, N/S	SM	DP	1	85	26.7	N/A			
						12.4				
5			DP	2	95	18.9	N/A			
						13.5				
10	Refusal / BoB @ 10'									DP - Direct Push HC - Hydrocarbon BoB - Bottom of Boring N/O - no odor N/S - no staining TOC - top of casing bgs - below ground surface
15										

Boring Log/Well Completion Diagram: SB-03

PAGE 1 OF 1

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-9.5') silty SAND - brown, dry, loose to very dense, fine to medium grained, poorly-graded with ~20% silt, N/O, N/S	SM	DP	1	90	11.7	N/A			
						18.5				
5		SM	DP	2	100	12.8	N/A			
						13.8				
10	(9.5-10') SAND/weathered Sandstone - brown, dry, very dense, fine grained, N/O, N/S	SStr								
	Refusal / BoB @ 10'									
15										
20										
25										
30										

DP - Direct Push
HC - Hydrocarbon
BoB - Bottom of Boring
N/O - no odor
N/S - no staining
TOC - top of casing
bgs - below ground surface

START/COMPLETION DATE: 10/05/2021

SAND PACK INTERVAL (FEET): N/A

PROJECT: ANTELOPE F-15

BENTONITE/GROUT INTERVAL (FEET): N/A

LOGGED BY: TC

WELL SCREEN INTERVAL (FEET): N/A

DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE

WELL DIAMETER (INCHES): N/A

BORING DEPTH (FEET): 10

WELL DEPTH (FEET): N/A

PID INSTRUMENT: MiniRAE 3000

TIME STARTED/COMPLETED: 1311/1329

SAMPLE COLLECTION DEPTH (FT.)/TIME: 2.5-5/1314, 7.5-10/1323



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Boring Log/Well Completion Diagram: SB-04

PAGE 1 OF 1

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-10') silty SAND - brown, dry, loose to very dense, fine to medium grained, poorly-graded with ~20% silt, N/O, N/S	SM	DP	1	90	14.9	N/A			
						13.6				
5			DP	2	100	10.1	N/A			
						9.2				
10	Refusal / BoB @ 10'									DP - Direct Push HC - Hydrocarbon BoB - Bottom of Boring N/O - no odor N/S - no staining TOC - top of casing bgs - below ground surface
15										

Boring Log/Well Completion Diagram: SB-05

PAGE 1 OF 1

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-16.5') silty SAND - brown, dry, loose to very dense, fine to medium grained, poorly-graded with ~20% silt, N/O, N/S	SM	DP	1	80	16.2	N/A			
						12.4				
5			DP	2	90	9.9	N/A	5		
						11.4				
10			DP	3	100	5.4	N/A	10		
						6.1				
15			DP	4	50	5.8	N/A	15		
20	Refusal / BoB @ 16.5'							20		
25								25		
30										

DP - Direct Push
 HC - Hydrocarbon
 BoB - Bottom of Boring
 N/O - no odor
 N/S - no staining
 TOC - top of casing
 bgs - below ground surface

START/COMPLETION DATE: 10/05/2021

SAND PACK INTERVAL (FEET): N/A

PROJECT: ANTELOPE F-15

BENTONITE/GROUT INTERVAL (FEET): N/A

LOGGED BY: TC

WELL SCREEN INTERVAL (FEET): N/A

DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE

WELL DIAMETER (INCHES): N/A

BORING DEPTH (FEET): 16.5

WELL DEPTH (FEET): N/A

PID INSTRUMENT: MiniRAE 3000

TIME STARTED/COMPLETED: 1458/1520

SAMPLE COLLECTION DEPTH (FT.)/TIME: 0-2.5/1500, 15-16.5/1516



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Boring Log/Well Completion Diagram: SB-06

PAGE 1 OF 1

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-9') silty SAND - brown, dry, loose to very dense, fine to medium grained, poorly-graded with ~20% silt, N/O, N/S	SM	DP	1	85	12.8	N/A			
						13.6				
5			DP	2	85	10.7	N/A	5		
						14.1				
10	(9-11.5') sandy CLAY - brown and gray, dry to moist, stiff to very stiff, medium plasticity, poorly-graded with ~40% sand, N/O, N/S	CL	DP	3	40	6.2	N/A	10		
	Refusal / BoB @ 11.5'									
15								15		
20								20		
25								25		
30										

DP - Direct Push
HC - Hydrocarbon
BoB - Bottom of Boring
N/O - no odor
N/S - no staining
TOC - top of casing
bgs - below ground surface

START/COMPLETION DATE: 10/05/2021

SAND PACK INTERVAL (FEET): N/A

PROJECT: ANTELOPE F-15

BENTONITE/GROUT INTERVAL (FEET): N/A

LOGGED BY: TC

WELL SCREEN INTERVAL (FEET): N/A

DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE

WELL DIAMETER (INCHES): N/A

BORING DEPTH (FEET): 11.5

WELL DEPTH (FEET): N/A

PID INSTRUMENT: MiniRAE 3000

TIME STARTED/COMPLETED: 1527/1543

SAMPLE COLLECTION DEPTH (FT.)/TIME: 7.5-10/1534, 10-11.5/1538



EAGLE
ENVIRONMENTAL
CONSULTING, INC.

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



ATTACHMENT C

Laboratory Analytical Reports



October 18, 2021

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Bonanza - Antelope F-15 West Pad Project Number - [none]

Attached are your analytical results for Bonanza - Antelope F-15 West Pad received by Origins Laboratory, Inc. October 06, 2021. This project is associated with Origins project number Y110096-01.

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 - Antelope F-15 West Pad

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-01@0-2.5'	Y110096-01	Soil	October 5, 2021 12:04	10/06/2021 08:32
SB-01@20-21'	Y110096-02	Soil	October 5, 2021 14:22	10/06/2021 08:32
SB-02@0-2.5'	Y110096-03	Soil	October 5, 2021 12:56	10/06/2021 08:32
SB-02@7.5-10'	Y110096-04	Soil	October 5, 2021 13:03	10/06/2021 08:32
SB-03@2.5-5'	Y110096-05	Soil	October 5, 2021 13:14	10/06/2021 08:32
SB-03@7.5-10'	Y110096-06	Soil	October 5, 2021 13:23	10/06/2021 08:32
SB-04@0-2.5'	Y110096-07	Soil	October 5, 2021 14:35	10/06/2021 08:32
SB-04@7.5-10'	Y110096-08	Soil	October 5, 2021 14:42	10/06/2021 08:32
SB-05@0-2.5'	Y110096-09	Soil	October 5, 2021 15:00	10/06/2021 08:32
SB-05@15-16.5'	Y110096-10	Soil	October 5, 2021 15:16	10/06/2021 08:32
SB-06@7.5-10'	Y110096-11	Soil	October 5, 2021 15:34	10/06/2021 08:32
SB-06@10-11.5'	Y110096-12	Soil	October 5, 2021 15:38	10/06/2021 08:32

Origins Laboratory, Inc.



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

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope F-15 West Pad

ORIGINS
LABORATORY, INC

www.originslaboratory.com

4110096

page 1 of 2

Client: Eagle Environmental
Address: 8000 W 44th Ave.
Wheat Ridge, CO 80033
Telephone Number: 303-433-0479
Email Address: mee3@eagle-enviro.com

Project Manager: Martin Eckert III
Project Name: Antelope F-15 West Pad
Project Number:
Samples Collected By: JL

Sample ID Description	Date Sampled	Time Sampled	# of Containers				Preservative			Matrix		Analysis	Sample Instructions
			Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summ	Other			
SB-01 @ 0-2.5'	10/5/21	1204	2	X					X			EC-SAL, pH =	1
SB-01 @ 20-21'		1422											2
SB-02 @ 0-2.5'		1256											3
SB-02 @ 7.5-10'		1303											4
SB-03 @ 2.5-5'		1314											5
SB-03 @ 7.5-10'		1323											6
SB-04 @ 0-2.5'		1435											7
SB-04 @ 7.5-10'		1442											8
SB-05 @ 0-2.5'		1500											9
SB-05 @ 15-16.5'		1516											10

Relinquished By: Trevor Copple
Relinquished By: [Signature]
Date: 10/6/21
Date: 11-06-21
Time: 0832
Time: 0832
Turnaround Time: Same Day ☐ 24 Hr ☐ 48 Hr ☐ 72 Hr ☒ Standard

Date Results Needed: 3.0
Temp Received: 3.0
Date Results Needed: 11-06-21
Date Results Needed: 11-06-21

Origins Laboratory, Inc.

Jordan A. Merrill

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

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope F-15 West Pad

Origins Laboratory

Sample Receipt Checklist

Origins Work Order: Y110096 Client: Eagle
Client Project ID: Antelope F-15

Checklist Completed by: SG Shipped Via: HD
Date/time completed: 10/16/12 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
Airbill #: N/A

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

Cooler Number/Temperature: 1/30 °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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	<input 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 jm (Project Manager)

10-7-21
Date/Time Reviewed

Origins Laboratory, Inc.

Jordan A. Merrill

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

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope F-15 West Pad

SB-01@0-2.5'

10/5/2021 12:04:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y110096-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.201	mg/L	1	B1J0825	10/08/2021	10/11/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1J0613	10/06/2021	10/07/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	58.8 %	50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1J0612	10/06/2021	10/12/2021	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	93.0 %	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 - Antelope F-15 West Pad

SB-01@0-2.5'

10/5/2021 12:04:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y110096-01 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	102 %		70-130			B1J06 12	10/06/2021	10/12/2021	
Surrogate: 4-Bromofluorobenzene	93.8 %		70-130			"	"	"	

Metals by Saturated Paste

Calcium	1.12		0.499	meq/L	10	[CALC]	10/08/2021	10/12/2021	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00033	0.00067	mg/Kg	1	L578131	10/08/2021	10/08/2021	
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.



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 - Antelope F-15 West Pad

SB-01@0-2.5'

10/5/2021 12:04:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y110096-01 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.00029	0.00067	mg/Kg	1	L578131	10/08/2021	10/08/2021
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	75.2 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	77 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	68 %	29-110	"	"	"

pH in Soil by 9045D

pH	7.91	pH Units	1	B1J0836	10/08/2021	10/09/2021
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SAR by 20B Saturated Paste

SAR	0.229	SAR	1	B1J0827	10/08/2021	10/12/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.174	0.00500	mmhos/cm	1	B1J0838	10/08/2021	10/09/2021
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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 - Antelope F-15 West Pad

SB-01@20-21'

10/5/2021 2:22:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y110096-02 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.201	mg/L	1	B1J0825	10/08/2021	10/11/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1J0613	10/06/2021	10/07/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	60.1 %	50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1J0612	10/06/2021	10/12/2021	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	110 %	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 - Antelope F-15 West Pad

SB-01@20-21'

10/5/2021 2:22:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y110096-02 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	98.6 %	70-130	B1J06 12	10/06/2021	10/12/2021
Surrogate: 4-Bromofluorobenzene	91.6 %	70-130	"	"	"

Metals by Saturated Paste

Calcium	0.968	0.499	meq/L	10	[CALC]	10/08/2021	10/12/2021
Magnesium	ND	0.823	"	"	"	"	"
Sodium	2.02	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00033	0.00067	mg/Kg	1	L578373	10/11/2021	10/11/2021
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	0.000331	0.00014	0.00067	"	"	"	"	" J
Benzo(b)fluoranthene	0.000448	0.00021	0.00067	"	"	"	"	" J
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.

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 - Antelope F-15 West Pad

SB-01@20-21'

10/5/2021 2:22:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc. Y110096-02 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.00029	0.00067	mg/Kg	1	L578373	10/11/2021	10/11/2021	
Indeno(1,2,3-cd)pyrene	0.000407	0.00029	0.00067	"	"	"	"	"	J
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"	
Pyrene	ND	0.00059	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	72.8 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	73.4 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	63.7 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.35			pH Units	1	B1J0836	10/08/2021	10/09/2021	
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SAR by 20B Saturated Paste

SAR	2.60			SAR	1	B1J0827	10/08/2021	10/12/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.333		0.00500	mmhos/cm	1	B1J0838	10/08/2021	10/09/2021	
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Total Metals by 6020B

Arsenic	2.19	0.0855	0.25	mg/Kg	5	L578053	10/07/2021	10/08/2021	
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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 - Antelope F-15 West Pad

SB-01@20-21'

10/5/2021 2:22:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y110096-02 (Soil)

Total Metals by 6020B

Barium	44.9	0.042	0.25	mg/Kg	5	L578053	10/07/2021	10/08/2021	
Cadmium	0.027	0.0259	0.25	"	"	"	"	"	J
Copper	3.09	0.0806	0.25	"	"	"	"	"	
Lead	4.69	0.031	0.25	"	"	"	"	"	
Nickel	4.47	0.0633	0.25	"	"	"	"	"	
Selenium	ND	0.103	0.25	"	"	"	"	"	
Silver	0.0135	0.0067	0.25	"	"	"	"	"	J
Zinc	19.8	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.252	0.517	mg/Kg	1	L578389	10/05/2021	10/11/2021	
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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 - Antelope F-15 West Pad

SB-02@0-2.5'

10/5/2021 12:56:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y110096-03 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.198	mg/L	1	B1J0825	10/08/2021	10/11/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1J0613	10/06/2021	10/07/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	70.9 %	50-150			"	"	"
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1J0612	10/06/2021	10/12/2021	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	93.6 %	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 - Antelope F-15 West Pad

SB-02@0-2.5'

10/5/2021 12:56:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y110096-03 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	102 %		70-130			B1J06 12	10/06/2021	10/12/2021	
Surrogate: 4-Bromofluorobenzene	94.6 %		70-130			"	"	"	

Metals by Saturated Paste

Calcium	0.554		0.499	meq/L	10	[CALC]	10/08/2021	10/12/2021	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00033	0.00067	mg/Kg	1	L578131	10/08/2021	10/08/2021	
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	0.000307	0.00014	0.00067	"	"	"	"	"	J
Benzo(b)fluoranthene	0.000438	0.00021	0.00067	"	"	"	"	"	J
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 - Antelope F-15 West Pad

SB-02@0-2.5'

10/5/2021 12:56:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y110096-03 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.00029	0.00067	mg/Kg	1	L578131	10/08/2021	10/08/2021
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	81.1 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	80.5 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	69.8 %	29-110	"	"	"

pH in Soil by 9045D

pH	7.44	pH Units	1	B1J0836	10/08/2021	10/09/2021
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SAR by 20B Saturated Paste

SAR	0.499	SAR	1	B1J0827	10/08/2021	10/12/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.118	0.00500	mmhos/cm	1	B1J0838	10/08/2021	10/09/2021
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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 - Antelope F-15 West Pad

SB-02@7.5-10'
10/5/2021 1:03:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y110096-04 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.200	mg/L	1	B1J0825	10/08/2021	10/11/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1J0613	10/06/2021	10/07/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	78.5 %	50-150			"	"	"
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1J0612	10/06/2021	10/12/2021	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	96.4 %	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 - Antelope F-15 West Pad

SB-02@7.5-10'

10/5/2021 1:03:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y110096-04 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	102 %		70-130			B1J06 12	10/06/2021	10/12/2021	
Surrogate: 4-Bromofluorobenzene	93.9 %		70-130			"	"	"	

Metals by Saturated Paste

Calcium	1.24		0.499	meq/L	10	[CALC]	10/08/2021	10/12/2021	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.522		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00033	0.00067	mg/Kg	1	L578131	10/08/2021	10/08/2021	
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	0.000242	0.00014	0.00067	"	"	"	"	"	J
Benzo(b)fluoranthene	0.000369	0.00021	0.00067	"	"	"	"	"	J
Benzo(k)fluoranthene	ND	0.00013	0.00067	"	"	"	"	"	
Chrysene	0.00081	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 - Antelope F-15 West Pad

SB-02@7.5-10'

10/5/2021 1:03:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y110096-04 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.00029	0.00067	mg/Kg	1	L578131	10/08/2021	10/08/2021
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	76.8 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	75.9 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	66.6 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.33	pH Units	1	B1J0836	10/08/2021	10/09/2021
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SAR by 20B Saturated Paste

SAR	0.585	SAR	1	B1J0827	10/08/2021	10/12/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.218	0.00500	mmhos/cm	1	B1J0838	10/08/2021	10/09/2021
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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 - Antelope F-15 West Pad

SB-03@2.5-5'
10/5/2021 1:14:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y110096-05 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.198	mg/L	1	B1J0825	10/08/2021	10/11/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1J0613	10/06/2021	10/07/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	55.5 %	50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1J0614	10/06/2021	10/10/2021	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	105 %	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 - Antelope F-15 West Pad

SB-03@2.5-5'

10/5/2021 1:14:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y110096-05 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	98.7 %		70-130			B1J06 14	10/06/2021	10/10/2021	
Surrogate: 4-Bromofluorobenzene	99.3 %		70-130			"	"	"	

Metals by Saturated Paste

Calcium	1.31		0.499	meq/L	10	[CALC]	10/08/2021	10/12/2021	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00033	0.00067	mg/Kg	1	L578131	10/08/2021	10/08/2021	
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 - Antelope F-15 West Pad

SB-03@2.5-5'
10/5/2021 1:14:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y110096-05 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.00029	0.00067	mg/Kg	1	L578131	10/08/2021	10/08/2021
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	73.8 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	74.1 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	65.4 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.24	pH Units	1	B1J0836	10/08/2021	10/09/2021
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SAR by 20B Saturated Paste

SAR	0.298	SAR	1	B1J0827	10/08/2021	10/12/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.179	0.00500	mmhos/cm	1	B1J0838	10/08/2021	10/09/2021
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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 - Antelope F-15 West Pad

SB-03@7.5-10'
10/5/2021 1:23:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y110096-06 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.199	mg/L	1	B1J0825	10/08/2021	10/11/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1J0615	10/06/2021	10/07/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	61.7 %	50-150	"	"	"
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1J0614	10/06/2021	10/10/2021	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	81.1 %	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 - Antelope F-15 West Pad

SB-03@7.5-10'

10/5/2021 1:23:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y110096-06 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	105 %		70-130			B1J06 14	10/06/2021	10/10/2021	
Surrogate: 4-Bromofluorobenzene	105 %		70-130			"	"	"	

Metals by Saturated Paste

Calcium	1.03		0.499	meq/L	10	[CALC]	10/08/2021	10/12/2021	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.848		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00033	0.00067	mg/Kg	1	L578131	10/08/2021	10/08/2021	
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 - Antelope F-15 West Pad

SB-03@7.5-10'

10/5/2021 1:23:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y110096-06 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.00029	0.00067	mg/Kg	1	L578131	10/08/2021	10/08/2021
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	79.6 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	75.7 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	67.6 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.22	pH Units	1	B1J0836	10/08/2021	10/09/2021
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SAR by 20B Saturated Paste

SAR	0.973	SAR	1	B1J0827	10/08/2021	10/12/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.179	0.00500	mmhos/cm	1	B1J0838	10/08/2021	10/09/2021
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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 - Antelope F-15 West Pad

SB-04@0-2.5'
10/5/2021 2:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y110096-07 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.197	mg/L	1	B1J0825	10/08/2021	10/11/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1J0615	10/06/2021	10/07/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	60.5 %	50-150			"	"	"
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1J0614	10/06/2021	10/10/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130			"	"	"
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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 - Antelope F-15 West Pad

SB-04@0-2.5'
10/5/2021 2:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y110096-07 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	98.4 %	70-130	B1J06 14	10/06/2021	10/10/2021
Surrogate: 4-Bromofluorobenzene	103 %	70-130	"	"	"

Metals by Saturated Paste

Calcium	0.873	0.499	meq/L	10	[CALC]	10/08/2021	10/12/2021
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00033	0.00067	mg/Kg	1	L578131	10/08/2021	10/08/2021
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	0.000308	0.00014	0.00067	"	"	"	"	J
Benzo(b)fluoranthene	0.000402	0.00021	0.00067	"	"	"	"	J
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 - Antelope F-15 West Pad

SB-04@0-2.5'
10/5/2021 2:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y110096-07 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.00029	0.00067	mg/Kg	1	L578131	10/08/2021	10/08/2021
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	74.3 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	71.9 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	68.3 %	29-110	"	"	"

pH in Soil by 9045D

pH	7.42	pH Units	1	B1J0836	10/08/2021	10/09/2021
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SAR by 20B Saturated Paste

SAR	0.250	SAR	1	B1J0827	10/08/2021	10/12/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.102	0.00500	mmhos/cm	1	B1J0838	10/08/2021	10/09/2021
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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 - Antelope F-15 West Pad

SB-04@7.5-10'

10/5/2021 2:42:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y110096-08 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.201	mg/L	1	B1J0825	10/08/2021	10/11/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1J0615	10/06/2021	10/07/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1J0614	10/06/2021	10/11/2021	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	85.8 %	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 - Antelope F-15 West Pad

SB-04@7.5-10'

10/5/2021 2:42:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y110096-08 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	103 %		70-130			B1J06 14	10/06/2021	10/11/2021	
Surrogate: 4-Bromofluorobenzene	93.5 %		70-130			"	"	"	

Metals by Saturated Paste

Calcium	1.52		0.499	meq/L	10	[CALC]	10/08/2021	10/12/2021	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.970		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00033	0.00067	mg/Kg	1	L578131	10/08/2021	10/08/2021	
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	0.000308	0.00014	0.00067	"	"	"	"	"	J
Benzo(b)fluoranthene	0.000416	0.00021	0.00067	"	"	"	"	"	J
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 - Antelope F-15 West Pad

SB-04@7.5-10'

10/5/2021 2:42:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y110096-08 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.00029	0.00067	mg/Kg	1	L578131	10/08/2021	10/08/2021
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	76.1 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	74 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	68.2 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.20	pH Units	1	B1J0836	10/08/2021	10/09/2021
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SAR by 20B Saturated Paste

SAR	0.979	SAR	1	B1J0827	10/08/2021	10/12/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.238	0.00500	mmhos/cm	1	B1J0838	10/08/2021	10/09/2021
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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 - Antelope F-15 West Pad

SB-05@0-2.5'
10/5/2021 3:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y110096-09 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.199	mg/L	1	B1J0825	10/08/2021	10/11/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1J0615	10/06/2021	10/07/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	62.8 %	50-150	"	"	"
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1J0614	10/06/2021	10/10/2021	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	79.0 %	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 - Antelope F-15 West Pad

SB-05@0-2.5'
10/5/2021 3:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y110096-09 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	106 %		70-130			B1J06 14	10/06/2021	10/10/2021	
Surrogate: 4-Bromofluorobenzene	106 %		70-130			"	"	"	

Metals by Saturated Paste

Calcium	ND		0.499	meq/L	10	[CALC]	10/08/2021	10/12/2021	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00033	0.00067	mg/Kg	1	L578373	10/11/2021	10/11/2021	
2-Methylnaphthalene	0.000554	0.00039	0.00067	"	"	"	"	"	JB
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	0.00028	0.00021	0.00067	"	"	"	"	"	J
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 - Antelope F-15 West Pad

SB-05@0-2.5'
10/5/2021 3:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y110096-09 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.00029	0.00067	mg/Kg	1	L578373	10/11/2021	10/11/2021	
Indeno(1,2,3-cd)pyrene	0.000426	0.00029	0.00067	"	"	"	"	"	J
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"	
Pyrene	ND	0.00059	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	74.6 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	76.5 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	66.4 %		29-110			"	"	"	

pH in Soil by 9045D

pH	6.79			pH Units	1	B1J0836	10/08/2021	10/09/2021	
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SAR by 20B Saturated Paste

SAR	0.140			SAR	1	B1J0827	10/08/2021	10/12/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0850		0.00500	mmhos/cm	1	B1J0838	10/08/2021	10/09/2021	
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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 - Antelope F-15 West Pad

SB-05@15-16.5'
10/5/2021 3:16:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y110096-10 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.200	mg/L	1	B1J0825	10/08/2021	10/11/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1J0615	10/06/2021	10/07/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	61.9 %	50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1J0614	10/06/2021	10/10/2021	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	90.6 %	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 - Antelope F-15 West Pad

SB-05@15-16.5'
10/5/2021 3:16:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y110096-10 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	105 %		70-130			B1J06 14	10/06/2021	10/10/2021	
Surrogate: 4-Bromofluorobenzene	99.7 %		70-130			"	"	"	

Metals by Saturated Paste

Calcium	1.23		0.499	meq/L	10	[CALC]	10/08/2021	10/12/2021	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00033	0.00067	mg/Kg	1	L578373	10/11/2021	10/11/2021	
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 - Antelope F-15 West Pad

SB-05@15-16.5'
10/5/2021 3:16:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y110096-10 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.00029	0.00067	mg/Kg	1	L578373	10/11/2021	10/11/2021	
Indeno(1,2,3-cd)pyrene	0.000321	0.00029	0.00067	"	"	"	"	"	J
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"	
Pyrene	ND	0.00059	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	74.6 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	77.7 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	67.9 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.27	pH Units	1	B1J0836	10/08/2021	10/09/2021
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SAR by 20B Saturated Paste

SAR	0.322	SAR	1	B1J0827	10/08/2021	10/12/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.188	0.00500	mmhos/cm	1	B1J0838	10/08/2021	10/09/2021
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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 - Antelope F-15 West Pad

SB-06@7.5-10'
10/5/2021 3:34:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y110096-11 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	1.98	mg/L	10	B1J0715	10/07/2021	10/08/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1J0615	10/06/2021	10/07/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	59.3 %	50-150		"	"	"
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1J0614	10/06/2021	10/10/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130		"	"	"
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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 - Antelope F-15 West Pad

SB-06@7.5-10'

10/5/2021 3:34:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y110096-11 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	98.8 %	70-130	B1J06 14	10/06/2021	10/10/2021
Surrogate: 4-Bromofluorobenzene	102 %	70-130	"	"	"

Metals by Saturated Paste

Calcium	2.76	0.499	meq/L	10	[CALC]	10/08/2021	10/12/2021
Magnesium	ND	0.823	"	"	"	"	"
Sodium	0.657	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	0.0035	0.00033	0.00067	mg/Kg	1	L578373	10/11/2021	10/11/2021
2-Methylnaphthalene	0.00624	0.00039	0.00067	"	"	"	"	"
Acenaphthene	0.000537	0.0003	0.00067	"	"	"	"	J
Anthracene	ND	0.00033	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.00041	0.00067	"	"	"	"	"
Benzo(a)pyrene	0.00028	0.00014	0.00067	"	"	"	"	J
Benzo(b)fluoranthene	0.000348	0.00021	0.00067	"	"	"	"	J
Benzo(k)fluoranthene	ND	0.00013	0.00067	"	"	"	"	"
Chrysene	0.000903	0.00027	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.00036	0.00067	"	"	"	"	"
Fluoranthene	0.000488	0.00039	0.00067	"	"	"	"	J
Fluorene	0.00179	0.00029	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 - Antelope F-15 West Pad

SB-06@7.5-10'

10/5/2021 3:34:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y110096-11 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	0.0003	0.00029	0.00067	mg/Kg	1	L578373	10/11/2021	10/11/2021	J
Naphthalene	0.00101	0.000467	0.00067	"	"	"	"	"	
Pyrene	0.000773	0.00059	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	73.3 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	78.1 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	65.7 %	29-110	"	"	"

pH in Soil by 9045D

pH	7.81	pH Units	1	B1J0837	10/08/2021	10/09/2021
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SAR by 20B Saturated Paste

SAR	0.505	SAR	1	B1J0828	10/08/2021	10/12/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.430	0.00500	mmhos/cm	1	B1J0839	10/08/2021	10/09/2021
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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 - Antelope F-15 West Pad

SB-06@10-11.5'
10/5/2021 3:38:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y110096-12 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.199	mg/L	1	B1J0715	10/07/2021	10/08/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1J0615	10/06/2021	10/07/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	58.4 %	50-150			"	"	"
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1J0614	10/06/2021	10/10/2021	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	108 %	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 - Antelope F-15 West Pad

SB-06@10-11.5'
10/5/2021 3:38:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y110096-12 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	97.9 %	70-130	B1J06 14	10/06/2021	10/10/2021
Surrogate: 4-Bromofluorobenzene	101 %	70-130	"	"	"

Metals by Saturated Paste

Calcium	3.10	0.499	meq/L	10	[CALC]	10/08/2021	10/12/2021
Magnesium	ND	0.823	"	"	"	"	"
Sodium	1.20	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00033	0.00067	mg/Kg	1	L578373	10/11/2021	10/11/2021	
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	0.000216	0.00014	0.00067	"	"	"	"	"	J
Benzo(b)fluoranthene	0.000296	0.00021	0.00067	"	"	"	"	"	J
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 - Antelope F-15 West Pad

SB-06@10-11.5'
10/5/2021 3:38:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y110096-12 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.00029	0.00067	mg/Kg	1	L578373	10/11/2021	10/11/2021
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	75.8 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	79.8 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	65.9 %	29-110	"	"	"

pH in Soil by 9045D

pH	7.86	pH Units	1	B1J0837	10/08/2021	10/09/2021
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SAR by 20B Saturated Paste

SAR	0.879	SAR	1	B1J0828	10/08/2021	10/12/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.504	0.00500	mmhos/cm	1	B1J0839	10/08/2021	10/09/2021
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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 - Antelope F-15 West Pad

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 B1J0612 - EPA 5030 (soil)										
Blank (B1J0612-BLK1)					Prepared: 10/06/2021 Analyzed: 10/11/2021					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.00380	"							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Xylenes, total	ND	0.00200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125	90.3		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	102		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	94.0		70-130			

Origins Laboratory, Inc.



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8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope F-15 West Pad

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 B1J0612 - EPA 5030 (soil)										
LCS (B1J0612-BS1)					Prepared: 10/06/2021 Analyzed: 10/11/2021					
1,2,4-Trimethylbenzene	0.0493	0.00200	mg/kg	0.0500		98.7	70-130			
Naphthalene	0.0520	0.0100	"	0.0500		104	70-130			
1,3,5-Trimethylbenzene	0.0469	0.00200	"	0.0500		93.8	70-130			
Benzene	0.0432	0.00200	"	0.0500		86.3	70-130			
Ethylbenzene	0.0460	0.00200	"	0.0500		92.1	70-130			
m,p-Xylene	0.0953	0.00400	"	0.100		95.3	70-130			
o-Xylene	0.0478	0.00200	"	0.0500		95.6	70-130			
Toluene	0.0480	0.00200	"	0.0500		96.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.1	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.2	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 - Antelope F-15 West Pad

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 B1J0612 - EPA 5030 (soil)										
Matrix Spike (B1J0612-MS1)		Source: Y110096-01			Prepared: 10/06/2021 Analyzed: 10/11/2021					
1,2,4-Trimethylbenzene	0.00744	0.00200	mg/kg	0.0500	ND	14.9	70-130			QM-07
Naphthalene	0.00718	0.0100	"	0.0500	ND	14.4	70-130			QM-07, U
1,3,5-Trimethylbenzene	0.0373	0.00200	"	0.0500	ND	74.7	70-130			
Benzene	0.0403	0.00200	"	0.0500	ND	80.5	70-130			
Ethylbenzene	0.0377	0.00200	"	0.0500	ND	75.4	70-130			
m,p-Xylene	0.0434	0.00400	"	0.100	ND	43.4	70-130			QM-07
o-Xylene	0.0391	0.00200	"	0.0500	ND	78.2	70-130			
Toluene	0.0400	0.00200	"	0.0500	ND	80.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.5	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		92.6	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 - Antelope F-15 West Pad

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 B1J0612 - EPA 5030 (soil)										
Matrix Spike Dup (B1J0612-MSD1)		Source: Y110096-01			Prepared: 10/06/2021 Analyzed: 10/11/2021					
1,2,4-Trimethylbenzene	0.0114	0.00200	mg/kg	0.0500	ND	22.8	70-130	42.2	20	QM-07, QR-03
Naphthalene	0.00824	0.0100	"	0.0500	ND	16.5	70-130	13.7	20	QM-07, U
1,3,5-Trimethylbenzene	0.0400	0.00200	"	0.0500	ND	80.1	70-130	6.98	20	
Benzene	0.0430	0.00200	"	0.0500	ND	86.0	70-130	6.54	20	
Ethylbenzene	0.0405	0.00200	"	0.0500	ND	81.0	70-130	7.16	20	
m,p-Xylene	0.0529	0.00400	"	0.100	ND	52.9	70-130	19.8	20	QM-07
o-Xylene	0.0418	0.00200	"	0.0500	ND	83.6	70-130	6.62	20	
Toluene	0.0430	0.00200	"	0.0500	ND	86.0	70-130	7.28	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.7	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		92.7	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 - Antelope F-15 West Pad

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 B1J0613 - EPA 3550B										
Blank (B1J0613-BLK1)					Prepared: 10/06/2021 Analyzed: 10/06/2021					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	15		"	25.0		61.7	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 - Antelope F-15 West Pad

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 B1J0613 - EPA 3550B

LCS (B1J0613-BS1)

Prepared: 10/06/2021 Analyzed: 10/11/2021

Diesel (C10-C28)	706	50.0	mg/kg	1000		70.6	70-130			
Residual Range Organics (C28-C40)	917	200	"	1000		91.7	70-130			
Surrogate: o-Terphenyl	40		"	50.0		80.0	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 - Antelope F-15 West Pad

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 B1J0613 - EPA 3550B

Matrix Spike (B1J0613-MS1)		Source: Y110096-01			Prepared: 10/06/2021 Analyzed: 10/07/2021					
Diesel (C10-C28)	606	50.0	mg/kg	1000	ND	60.6	70-130			QM-07
Residual Range Organics (C28-C40)	755	200	"	1000	ND	75.5	70-130			
Surrogate: o-Terphenyl	31		"	50.0		61.9	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 - Antelope F-15 West Pad

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 B1J0613 - EPA 3550B										
Matrix Spike Dup (B1J0613-MSD1)		Source: Y110096-01			Prepared: 10/06/2021 Analyzed: 10/07/2021					
Diesel (C10-C28)	736	50.0	mg/kg	1000	ND	73.6	70-130	19.4	35	
Residual Range Organics (C28-C40)	943	200	"	1000	ND	94.3	70-130	22.1	35	
Surrogate: o-Terphenyl	43		"	50.0		86.4	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 - Antelope F-15 West Pad

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 B1J0614 - EPA 5030 (soil)										
Blank (B1J0614-BLK1)					Prepared: 10/06/2021 Analyzed: 10/10/2021					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.00380	"							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Xylenes, total	ND	0.00200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.9	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 - Antelope F-15 West Pad

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 B1J0614 - EPA 5030 (soil)

LCS (B1J0614-BS1)

Prepared: 10/06/2021 Analyzed: 10/10/2021

1,2,4-Trimethylbenzene	0.0428	0.00200	mg/kg	0.0500		85.7	70-130			
Naphthalene	0.0380	0.0100	"	0.0500		76.1	70-130			
1,3,5-Trimethylbenzene	0.0434	0.00200	"	0.0500		86.8	70-130			
Benzene	0.0436	0.00200	"	0.0500		87.2	70-130			
Ethylbenzene	0.0434	0.00200	"	0.0500		86.8	70-130			
m,p-Xylene	0.0913	0.00400	"	0.100		91.3	70-130			
o-Xylene	0.0430	0.00200	"	0.0500		86.0	70-130			
Toluene	0.0435	0.00200	"	0.0500		87.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope F-15 West Pad

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 B1J0614 - EPA 5030 (soil)

Matrix Spike (B1J0614-MS1)		Source: Y110096-11			Prepared: 10/06/2021 Analyzed: 10/10/2021					
1,2,4-Trimethylbenzene	0.0434	0.00200	mg/kg	0.0500	ND	86.8	70-130			
Naphthalene	0.0375	0.0100	"	0.0500	ND	75.1	70-130			
1,3,5-Trimethylbenzene	0.0429	0.00200	"	0.0500	ND	85.7	70-130			
Benzene	0.0432	0.00200	"	0.0500	ND	86.3	70-130			
Ethylbenzene	0.0445	0.00200	"	0.0500	ND	89.0	70-130			
m,p-Xylene	0.0922	0.00400	"	0.100	ND	92.2	70-130			
o-Xylene	0.0447	0.00200	"	0.0500	ND	89.4	70-130			
Toluene	0.0434	0.00200	"	0.0500	ND	86.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.8	70-130			

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8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope F-15 West Pad

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 B1J0614 - EPA 5030 (soil)										
Matrix Spike Dup (B1J0614-MSD1)		Source: Y110096-11			Prepared: 10/06/2021 Analyzed: 10/10/2021					
1,2,4-Trimethylbenzene	0.0456	0.00200	mg/kg	0.0500	ND	91.3	70-130	4.99	20	
Naphthalene	0.0378	0.0100	"	0.0500	ND	75.6	70-130	0.743	20	
1,3,5-Trimethylbenzene	0.0451	0.00200	"	0.0500	ND	90.1	70-130	5.00	20	
Benzene	0.0460	0.00200	"	0.0500	ND	92.0	70-130	6.37	20	
Ethylbenzene	0.0466	0.00200	"	0.0500	ND	93.2	70-130	4.61	20	
m,p-Xylene	0.0976	0.00400	"	0.100	ND	97.6	70-130	5.71	20	
o-Xylene	0.0465	0.00200	"	0.0500	ND	92.9	70-130	3.86	20	
Toluene	0.0448	0.00200	"	0.0500	ND	89.6	70-130	3.17	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

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Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope F-15 West Pad

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 B1J0615 - EPA 3550B

LCS (B1J0615-BS1)

Prepared: 10/06/2021 Analyzed: 10/07/2021

Diesel (C10-C28)	718	50.0	mg/kg	1000		71.8	70-130			
Residual Range Organics (C28-C40)	825	200	"	1000		82.5	70-130			
Surrogate: o-Terphenyl	33		"	50.0		66.4	50-150			

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Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope F-15 West Pad

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 B1J0615 - EPA 3550B

Matrix Spike (B1J0615-MS1)		Source: Y110096-11			Prepared: 10/06/2021 Analyzed: 10/07/2021					
Diesel (C10-C28)	605	50.0	mg/kg	1000	ND	60.5	70-130			QM-07
Residual Range Organics (C28-C40)	717	200	"	1000	ND	71.7	70-130			
Surrogate: o-Terphenyl	31		"	50.0		61.5	50-150			

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Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope F-15 West Pad

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 B1J0615 - EPA 3550B										
Matrix Spike Dup (B1J0615-MSD1)		Source: Y110096-11			Prepared: 10/06/2021 Analyzed: 10/07/2021					
Diesel (C10-C28)	634	50.0	mg/kg	1000	ND	63.4	70-130	4.73	35	QM-07
Residual Range Organics (C28-C40)	714	200	"	1000	ND	71.4	70-130	0.444	35	
Surrogate: o-Terphenyl	33		"	50.0		65.6	50-150			

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Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope F-15 West Pad

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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Classical Chemistry Parameters - 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 B1J0828 - Default Prep Metals

Blank (B1J0828-BLK1)

Prepared: 10/08/2021 Analyzed: 10/12/2021

SAR	0.00	SAR
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Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope F-15 West Pad

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B1J0836 - NO PREP										
Duplicate (B1J0836-DUP1)		Source: Y110096-05			Prepared: 10/08/2021 Analyzed: 10/09/2021					
pH	8.18		pH Units		8.24			0.731	25	
Batch B1J0837 - NO PREP										
Duplicate (B1J0837-DUP1)		Source: Y110150-03			Prepared: 10/08/2021 Analyzed: 10/09/2021					
pH	7.75		pH Units		7.76			0.129	25	
Batch B1J0838 - NO PREP										
Blank (B1J0838-BLK1)		Prepared: 10/08/2021 Analyzed: 10/09/2021								
Specific Conductance (EC)	0.000900	0.00500	mmhos/cm							
Duplicate (B1J0838-DUP1)		Source: Y110096-05			Prepared: 10/08/2021 Analyzed: 10/09/2021					
Specific Conductance (EC)	0.173	0.00500	mmhos/cm		0.179			3.41	25	
Batch B1J0839 - NO PREP										
Blank (B1J0839-BLK1)		Prepared: 10/08/2021 Analyzed: 10/09/2021								
Specific Conductance (EC)	0.00120	0.00500	mmhos/cm							
Duplicate (B1J0839-DUP1)		Source: Y110150-03			Prepared: 10/08/2021 Analyzed: 10/09/2021					
Specific Conductance (EC)	0.790	0.00500	mmhos/cm		0.812			2.73	25	

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Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope F-15 West Pad

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 L578131 - 3550B

MSD (L 97918-MSD-L578131)		Source: 97918			Prepared: 10/08/2021 Analyzed: 10/08/2021					
Benzo(a)pyrene	0.132	0.00014	mg/Kg	0.167	0.000274	79	30-130	3.8	30	
Pyrene	0.13	0.00059	"	0.167	97918	77.8	30-130	6.3	30	
1-Methylnaphthalene	0.116	0.00033	"	0.167	97918	69.4	30-130	2.6	30	
2-Methylnaphthalene	0.115	0.00039	"	0.167	97918	68.8	30-130	2.6	30	
Acenaphthene	0.119	0.0003	"	0.167	97918	71.2	30-130	0.8	30	
Anthracene	0.126	0.00033	"	0.167	97918	75.4	30-130	4.8	30	
Benzo(a)anthracene	0.131	0.00041	"	0.167	97918	78.4	30-130	6.2	30	
Benzo(b)fluoranthene	0.145	0.00021	"	0.167	97918	86.8	30-130	4.9	30	
Benzo(k)fluoranthene	0.126	0.00013	"	0.167	97918	75.4	30-130	4	30	
Chrysene	0.128	0.00027	"	0.167	97918	76.6	30-130	2.3	30	
Dibenz(a,h)anthracene	0.14	0.00036	"	0.167	97918	83.8	30-130	2.1	30	
Fluoranthene	0.133	0.00039	"	0.167	97918	79.6	30-130	7	30	
Fluorene	0.124	0.00029	"	0.167	97918	74.2	30-130	3.2	30	
Indeno(1,2,3-cd)pyrene	0.136	0.00029	"	0.167	0.000319	81.4	30-130	6.8	30	
Naphthalene	0.109	0.000467	"	0.167	0.000603	65.2	30-130	1.8	30	
Surrogate: 2-Fluorobiphenyl	84.9		"	0.333	272	84.9	33-115			
Surrogate: 4-Terphenyl-d14	83.7		"	0.333	262	83.7	33-122			
Surrogate: Nitrobenzene-d5	72.3		"	0.333	239	72.3	29-110			

MS (L 97918-MS-L578131)		Source: 97918			Prepared: 10/08/2021 Analyzed: 10/08/2021					
Fluoranthene	0.124	0.00039	mg/Kg	0.163	97918	76	30-130			
Fluorene	0.12	0.00029	"	0.163	97918	73.6	30-130			
1-Methylnaphthalene	0.113	0.00033	"	0.163	97918	69.3	30-130			
Chrysene	0.125	0.00027	"	0.163	97918	76.6	30-130			
Naphthalene	0.107	0.000467	"	0.163	0.000603	65.6	30-130			
Indeno(1,2,3-cd)pyrene	0.127	0.00029	"	0.163	0.000319	77.9	30-130			
Pyrene	0.122	0.00059	"	0.163	97918	74.8	30-130			

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Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope F-15 West Pad

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 L578131 - 3550B

MS (L 97918-MS-L578131)		Source: 97918			Prepared: 10/08/2021 Analyzed: 10/08/2021					
Dibenz(a,h)anthracene	0.137	0.00036	mg/Kg	0.163	97918	84	30-130			
Benzo(k)fluoranthene	0.121	0.00013	"	0.163	97918	74.2	30-130			
Benzo(b)fluoranthene	0.138	0.00021	"	0.163	97918	84.6	30-130			
Benzo(a)pyrene	0.127	0.00014	"	0.163	0.000274	77.9	30-130			
Benzo(a)anthracene	0.123	0.00041	"	0.163	97918	75.4	30-130			
Anthracene	0.12	0.00033	"	0.163	97918	73.6	30-130			
Acenaphthene	0.118	0.0003	"	0.163	97918	72.3	30-130			
2-Methylnaphthalene	0.112	0.00039	"	0.163	97918	68.7	30-130			
Surrogate: Nitrobenzene-d5	73		"	0.327	239	73	29-110			
Surrogate: 4-Terphenyl-d14	81.9		"	0.327	262	81.9	33-122			
Surrogate: 2-Fluorobiphenyl	87.1		"	0.327	272	87.1	33-115			

LCS (LCS-L578131)		Prepared: 10/08/2021 Analyzed: 10/08/2021								
Benzo(b)fluoranthene	0.131	0.00021	mg/Kg	0.167		78.4	30-130			
Acenaphthene	0.119	0.0003	"	0.167		71.2	30-130			
Anthracene	0.122	0.00033	"	0.167		73	30-130			
Benzo(a)anthracene	0.128	0.00041	"	0.167		76.6	30-130			
Benzo(a)pyrene	0.127	0.00014	"	0.167		76	30-130			
Benzo(k)fluoranthene	0.145	0.00013	"	0.167		86.8	30-130			
Chrysene	0.127	0.00027	"	0.167		76	30-130			
Dibenz(a,h)anthracene	0.161	0.00036	"	0.167		96.4	30-130			
Fluoranthene	0.133	0.00039	"	0.167		79.6	30-130			
Fluorene	0.123	0.00029	"	0.167		73.6	30-130			
Indeno(1,2,3-cd)pyrene	0.156	0.00029	"	0.167		93.4	30-130			
1-Methylnaphthalene	0.115	0.00033	"	0.167		68.8	30-130			
Pyrene	0.131	0.00059	"	0.167		78.4	30-130			
Naphthalene	0.11	0.000467	"	0.167		65.8	30-130			

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Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope F-15 West Pad

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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 L578131 - 3550B

LCS (LCS-L578131)

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

2-Methylnaphthalene	0.115	0.00039	mg/Kg	0.167		68.8	30-130			
Surrogate: 4-Terphenyl-d14	83.4		"	0.333		83.4	33-122			
Surrogate: 2-Fluorobiphenyl	84.3		"	0.333		84.3	33-115			
Surrogate: Nitrobenzene-d5	73.5		"	0.333		73.5	29-110			

LRB (LRB-L578131)

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

Chrysene	ND	0.00067	mg/Kg				-			
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(k)fluoranthene	ND	0.00067	"				-			
1-Methylnaphthalene	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	0.000473	0.00067	"				-			J
Pyrene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Surrogate: 4-Terphenyl-d14	83.7		"	0.333		83.7	33-122			
Surrogate: Nitrobenzene-d5	76.5		"	0.333		76.5	29-110			
Surrogate: 2-Fluorobiphenyl	81.9		"	0.333		81.9	33-115			

Batch L578373 - 3550B

MSD (L 97865-MSD-L578373)

Source: 97865

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

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Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope F-15 West Pad

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 L578373 - 3550B

MSD (L 97865-MSD-L578373)		Source: 97865			Prepared: 10/11/2021 Analyzed: 10/11/2021					
Chrysene	0.127	0.00027	mg/Kg	0.166	97865	76.5	30-130	8.1	30	
2-Methylnaphthalene	0.111	0.00039	"	0.166	0.000511	66.8	30-130	8.4	30	
Acenaphthene	0.116	0.0003	"	0.166	97865	69.8	30-130	8	30	
Anthracene	0.125	0.00033	"	0.166	97865	75.3	30-130	9.2	30	
Benzo(a)anthracene	0.129	0.00041	"	0.166	97865	77.7	30-130	9.7	30	
Benzo(a)pyrene	0.131	0.00014	"	0.166	0.000203	78.9	30-130	12.1	30	
Pyrene	0.128	0.00059	"	0.166	97865	77.1	30-130	10.6	30	
Benzo(k)fluoranthene	0.115	0.00013	"	0.166	97865	69.2	30-130	19.6	30	
Dibenz(a,h)anthracene	0.134	0.00036	"	0.166	97865	80.7	30-130	17.8	30	
Fluoranthene	0.132	0.00039	"	0.166	97865	79.5	30-130	11.2	30	
Fluorene	0.122	0.00029	"	0.166	0.000312	73.4	30-130	9.4	30	
Indeno(1,2,3-cd)pyrene	0.129	0.00029	"	0.166	0.000355	77.7	30-130	16.8	30	
Naphthalene	0.104	0.000467	"	0.166	97865	62.6	30-130	8.3	30	
1-Methylnaphthalene	0.109	0.00033	"	0.166	97865	65.6	30-130	7.6	30	
Benzo(b)fluoranthene	0.109	0.00021	"	0.166	97865	65.6	30-130	12.9	30	
Surrogate: 2-Fluorobiphenyl	78.9		"	0.332	242	78.9	33-115			
Surrogate: 4-Terphenyl-d14	81.3		"	0.332	242	81.3	33-122			
Surrogate: Nitrobenzene-d5	67.7		"	0.332	198	67.7	29-110			

MS (L 97865-MS-L578373)		Source: 97865			Prepared: 10/11/2021 Analyzed: 10/11/2021					
Dibenz(a,h)anthracene	0.112	0.00036	mg/Kg	0.165	97865	67.8	30-130			
2-Methylnaphthalene	0.102	0.00039	"	0.165	0.000511	61.8	30-130			
Pyrene	0.115	0.00059	"	0.165	97865	69.6	30-130			
Acenaphthene	0.107	0.0003	"	0.165	97865	64.8	30-130			
Benzo(a)anthracene	0.117	0.00041	"	0.165	97865	70.9	30-130			
Benzo(a)pyrene	0.116	0.00014	"	0.165	0.000203	70.3	30-130			
Benzo(b)fluoranthene	0.0957	0.00021	"	0.165	97865	58	30-130			

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Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope F-15 West Pad

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 L578373 - 3550B

MS (L 97865-MS-L578373)		Source: 97865			Prepared: 10/11/2021 Analyzed: 10/11/2021					
Chrysene	0.117	0.00027	mg/Kg	0.165	97865	70.9	30-130			
Fluoranthene	0.118	0.00039	"	0.165	97865	71.5	30-130			
Fluorene	0.111	0.00029	"	0.165	0.000312	67.2	30-130			
Indeno(1,2,3-cd)pyrene	0.109	0.00029	"	0.165	0.000355	66	30-130			
Naphthalene	0.0957	0.000467	"	0.165	97865	58	30-130			
1-Methylnaphthalene	0.101	0.00033	"	0.165	97865	61.2	30-130			
Benzo(k)fluoranthene	0.0944	0.00013	"	0.165	97865	57.2	30-130			
Anthracene	0.114	0.00033	"	0.165	97865	69	30-130			
Surrogate: 2-Fluorobiphenyl	73.3		"	0.33	242	73.3	33-115			
Surrogate: 4-Terphenyl-d14	76		"	0.33	242	76	33-122			
Surrogate: Nitrobenzene-d5	60.9		"	0.33	198	60.9	29-110			

LCS (LCS-L578373)		Prepared: 10/11/2021 Analyzed: 10/11/2021								
2-Methylnaphthalene	0.127	0.00039	mg/Kg	0.167		76	30-130			
Acenaphthene	0.133	0.0003	"	0.167		79.6	30-130			
1-Methylnaphthalene	0.126	0.00033	"	0.167		75.4	30-130			
Pyrene	0.142	0.00059	"	0.167		85	30-130			
Benzo(a)anthracene	0.145	0.00041	"	0.167		86.8	30-130			
Naphthalene	0.119	0.000467	"	0.167		71.2	30-130			
Chrysene	0.145	0.00027	"	0.167		86.8	30-130			
Benzo(a)pyrene	0.147	0.00014	"	0.167		88	30-130			
Anthracene	0.136	0.00033	"	0.167		81.4	30-130			
Benzo(b)fluoranthene	0.123	0.00021	"	0.167		73.6	30-130			
Benzo(k)fluoranthene	0.124	0.00013	"	0.167		74.2	30-130			
Indeno(1,2,3-cd)pyrene	0.14	0.00029	"	0.167		83.8	30-130			
Dibenz(a,h)anthracene	0.142	0.00036	"	0.167		85	30-130			
Fluoranthene	0.145	0.00039	"	0.167		86.8	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 - Antelope F-15 West Pad

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 L578373 - 3550B

LCS (LCS-L578373)

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

Fluorene	0.138	0.00029	mg/Kg	0.167		82.6	30-130			
Surrogate: Nitrobenzene-d5	78.9		"	0.333		78.9	29-110			
Surrogate: 2-Fluorobiphenyl	91.5		"	0.333		91.5	33-115			
Surrogate: 4-Terphenyl-d14	93.3		"	0.333		93.3	33-122			

LRB (LRB-L578373)

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

Acenaphthene	ND	0.00067	mg/Kg				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
2-Methylnaphthalene	0.000471	0.00067	"				-			J
Pyrene	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	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Surrogate: 4-Terphenyl-d14	85.8		"	0.333		85.8	33-122			
Surrogate: 2-Fluorobiphenyl	83.7		"	0.333		83.7	33-115			
Surrogate: Nitrobenzene-d5	77.4		"	0.333		77.4	29-110			

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 - Antelope F-15 West Pad

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
Batch L578053 - 3050B										
MSD (L 97406-MSD-L578053)			Source: 97406		Prepared: 10/07/2021 Analyzed: 10/08/2021					
Silver	0.73	0.0067	mg/Kg	0.498	0.219	147	75-125	0.8	80	*
Selenium	4.81	0.103	"	4.98	0.209	97	75-125	1	80	
Nickel	3.5	0.0633	"	2.49	0.86	106	75-125	8.6	80	
Lead	2.47	0.062	"	2.49	0.438	99	75-125	8.8	80	
Copper	17.3	0.0806	"	2.49	15.5	72	75-125	7.8	80	*
Zinc	95.2	0.534	"	24.9	74.2	84	75-125	3.2	80	
Barium	16.6	0.042	"	4.98	11.2	108	75-125	12.1	80	
Arsenic	2.39	0.0855	"	2.49	0.123	96	75-125	2.1	80	
Cadmium	0.56	0.0259	"	0.498	0.0646	112	75-125	8.3	80	
MS (L 97406-MS-L578053)			Source: 97406		Prepared: 10/07/2021 Analyzed: 10/08/2021					
Nickel	3.21	0.0633	mg/Kg	2.46	0.86	96	75-125			
Arsenic	2.34	0.0855	"	2.46	0.123	95	75-125			
Barium	14.7	0.042	"	4.92	11.2	71	75-125			*
Cadmium	0.515	0.0259	"	0.492	0.0646	105	75-125			
Lead	2.26	0.062	"	2.46	0.438	92	75-125			
Selenium	4.86	0.103	"	4.92	0.209	99	75-125			
Silver	0.724	0.0067	"	0.492	0.219	147	75-125			*
Zinc	92.2	0.534	"	24.6	74.2	73	75-125			*
Copper	16	0.0806	"	2.46	15.5	20	75-125			*
LCS (LCS-L578053)			Prepared: 10/07/2021 Analyzed: 10/08/2021							
Silver	0.509	0.0067	mg/Kg	0.5		102	80-120			
Arsenic	2.39	0.0855	"	2.5		96	80-120			
Barium	5.1	0.042	"	5		102	80-120			
Cadmium	0.489	0.0259	"	0.5		98	80-120			
Copper	2.45	0.0806	"	2.5		98	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 - Antelope F-15 West Pad

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 L578053 - 3050B

LCS (LCS-L578053)

Prepared: 10/07/2021 Analyzed: 10/08/2021

Lead	2.49	0.031	mg/Kg	2.5		100	80-120			
Zinc	24.5	0.534	"	25		98	80-120			
Selenium	4.92	0.103	"	5		98	80-120			
Nickel	2.41	0.0633	"	2.5		96	80-120			

LRB (LRB-L578053)

Prepared: 10/07/2021 Analyzed: 10/08/2021

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

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope F-15 West Pad

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 L578389 -										
DUP (L 98514-DUP)		Source: 98514			Prepared: Analyzed: 10/11/2021					
Chromium, Hexavalent	ND	0.244	mg/Kg		98514	-		0	20	
MS (L 98514-MS)		Source: 98514			Prepared: Analyzed: 10/11/2021					
Chromium, Hexavalent	4.48	0.244	mg/Kg	7.86	98514	57	75-125			*
LCS (LCS)					Prepared: Analyzed: 10/11/2021					
Chromium, Hexavalent	6.97	0.244	mg/Kg	8		87	75-125			
LRB (LRB)					Prepared: Analyzed: 10/11/2021					
Chromium, Hexavalent	ND	0.5	mg/Kg							

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope F-15 West Pad

Notes and Definitions

U Sample is Non-Detect.

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

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

JB [Undefined]

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.



October 18, 2021

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Bonanza - Antelope F-15 West Pad Project Number - [none]

Attached are your analytical results for Bonanza - Antelope F-15 West Pad received by Origins Laboratory, Inc. October 06, 2021. This project is associated with Origins project number Y110097-01.

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 - Antelope F-15 West Pad

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-01@4.5'	Y110097-01	Soil	October 5, 2021 11:42	10/06/2021 08:32
SS-02@5'	Y110097-02	Soil	October 5, 2021 11:45	10/06/2021 08:32
SS-03@5'	Y110097-03	Soil	October 5, 2021 11:48	10/06/2021 08:32
SS-04@4.5'	Y110097-04	Soil	October 5, 2021 11:51	10/06/2021 08:32
FS-01@6'	Y110097-05	Soil	October 5, 2021 11:54	10/06/2021 08:32

Origins Laboratory, Inc.



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

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope F-15 West Pad

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

Sample Receipt Checklist

Origins Work Order: Y110097 Client: Eagle
Client Project ID: Antelope F-15

Checklist Completed by: JG Shipped Via: HD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
Date/time completed: 10/6/21 Airbill #: N/A

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☐ Water ☐ Other: _____
Cooler Number/Temperature: 1 13.0 °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 HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +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

10-7-21
Date/Time Reviewed

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 - Antelope F-15 West Pad

SS-01@4.5'

10/5/2021 11:42:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y110097-01 (Soil)

Boron (DTPA Sorbitol)

Boron	5.53	0.199	mg/L	1	B1J0715	10/07/2021	10/08/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1J0615	10/06/2021	10/07/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	59.8 %	50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1J0514	10/05/2021	10/08/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	121 %	70-130			"	"	"	
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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 - Antelope F-15 West Pad

SS-01@4.5'

10/5/2021 11:42:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y110097-01 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	84.8 %		70-130			B1J05 14	10/05/2021	10/08/2021	
Surrogate: 4-Bromofluorobenzene	98.8 %		70-130			"	"	"	

Metals by Saturated Paste

Calcium	15.6		4.99	meq/L	100	[CALC]	10/08/2021	10/12/2021	
Magnesium	ND		8.23	"	"	"	"	"	
Sodium	170		4.35	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00033	0.00067	mg/Kg	1	L578131	10/08/2021	10/08/2021	
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	0.000319	0.00014	0.00067	"	"	"	"	"	J
Benzo(b)fluoranthene	0.00042	0.00021	0.00067	"	"	"	"	"	J
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.

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 - Antelope F-15 West Pad

SS-01@4.5'

10/5/2021 11:42:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y110097-01 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.00029	0.00067	mg/Kg	1	L578131	10/08/2021	10/08/2021
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	79.3 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	77.2 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	69.4 %	29-110	"	"	"

pH in Soil by 9045D

pH	7.44	pH Units	1	B1J0837	10/08/2021	10/09/2021
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SAR by 20B Saturated Paste

SAR	54.6	SAR	1	B1J0828	10/08/2021	10/12/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	17.9	0.00500	mmhos/cm	1	B1J0839	10/08/2021	10/09/2021
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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 - Antelope F-15 West Pad

SS-02@5'

10/5/2021 11:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y110097-02 (Soil)

Boron (DTPA Sorbitol)

Boron	10.4	0.198	mg/L	1	B1J0715	10/07/2021	10/08/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1J0615	10/06/2021	10/07/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	58.0 %	50-150	"	"	"
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1J0514	10/05/2021	10/08/2021	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	89.6 %	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 - Antelope F-15 West Pad

SS-02@5'

10/5/2021 11:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y110097-02 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	89.8 %	70-130	B1J05 14	10/05/2021	10/08/2021
Surrogate: 4-Bromofluorobenzene	99.3 %	70-130	"	"	"

Metals by Saturated Paste

Calcium	186	49.9	meq/L	1000	[CALC]	10/08/2021	10/12/2021
Magnesium	ND	82.3	"	"	"	"	"
Sodium	638	43.5	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	0.00111	0.00033	0.00067	mg/Kg	1	L578131	10/08/2021	10/08/2021
2-Methylnaphthalene	0.000862	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	0.000268	0.00021	0.00067	"	"	"	"	" J
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.

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 - Antelope F-15 West Pad

SS-02@5'

10/5/2021 11:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y110097-02 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.00029	0.00067	mg/Kg	1	L578131	10/08/2021	10/08/2021
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	77.3 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	79.5 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	69.2 %	29-110	"	"	"

pH in Soil by 9045D

pH	7.15	pH Units	1	B1J0837	10/08/2021	10/09/2021
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SAR by 20B Saturated Paste

SAR	58.8	SAR	1	B1J0828	10/08/2021	10/12/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	66.8	0.00500	mmhos/cm	1	B1J0839	10/08/2021	10/09/2021
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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 - Antelope F-15 West Pad

SS-03@5'

10/5/2021 11:48:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y110097-03 (Soil)

Boron (DTPA Sorbitol)

Boron	3.81	0.199	mg/L	1	B1J0715	10/07/2021	10/08/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1J0615	10/06/2021	10/07/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	57.4 %	50-150	"	"	"
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1J0514	10/05/2021	10/08/2021	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	70.8 %	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 - Antelope F-15 West Pad

SS-03@5'

10/5/2021 11:48:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y110097-03 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	99.7 %		70-130			B1J05 14	10/05/2021	10/08/2021	
Surrogate: 4-Bromofluorobenzene	113 %		70-130			"	"	"	

Metals by Saturated Paste

Calcium	ND		4.99	meq/L	100	[CALC]	10/08/2021	10/12/2021	
Magnesium	ND		8.23	"	"	"	"	"	
Sodium	109		4.35	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00033	0.00067	mg/Kg	1	L578373	10/11/2021	10/11/2021	
2-Methylnaphthalene	0.000511	0.00039	0.00067	"	"	"	"	"	JB
Acenaphthene	ND	0.0003	0.00067	"	"	"	"	"	
Anthracene	ND	0.00033	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.00041	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.000203	0.00014	0.00067	"	"	"	"	"	J
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.

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 - Antelope F-15 West Pad

SS-03@5'

10/5/2021 11:48:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y110097-03 (Soil)

PAH by 8270D SIM

Fluorene	0.000312	0.00029	0.00067	mg/Kg	1	L578373	10/11/2021	10/11/2021	J
Indeno(1,2,3-cd)pyrene	0.000355	0.00029	0.00067	"	"	"	"	"	J
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"	
Pyrene	ND	0.00059	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	73.3 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	73.3 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	60 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.20	pH Units	1	B1J0837	10/08/2021	10/09/2021
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SAR by 20B Saturated Paste

SAR	109	SAR	1	B1J0828	10/08/2021	10/12/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	10.8	0.00500	mmhos/cm	1	B1J0839	10/08/2021	10/09/2021
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Total Metals by 6020B

Arsenic	2.47	0.0855	0.25	mg/Kg	5	L578053	10/07/2021	10/08/2021
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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 - Antelope F-15 West Pad

SS-03@5'

10/5/2021 11:48:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y110097-03 (Soil)

Total Metals by 6020B

Barium	84.2	0.042	0.25	mg/Kg	5	L578053	10/07/2021	10/08/2021	
Cadmium	0.0468	0.0259	0.25	"	"	"	"	"	J
Copper	2.65	0.0806	0.25	"	"	"	"	"	
Lead	4.76	0.031	0.25	"	"	"	"	"	
Nickel	4.44	0.0633	0.25	"	"	"	"	"	
Selenium	ND	0.103	0.25	"	"	"	"	"	
Silver	0.0114	0.0067	0.25	"	"	"	"	"	J
Zinc	18.3	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L578389	10/05/2021	10/11/2021	
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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 - Antelope F-15 West Pad

SS-04@4.5'

10/5/2021 11:51:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y110097-04 (Soil)

Boron (DTPA Sorbitol)

Boron	3.85	0.199	mg/L	1	B1J0715	10/07/2021	10/08/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1J0615	10/06/2021	10/07/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	58.4 %	50-150	"	"	"
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1J0514	10/05/2021	10/08/2021	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	95.7 %	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 - Antelope F-15 West Pad

SS-04@4.5'

10/5/2021 11:51:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y110097-04 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	89.5 %		70-130			B1J05 14	10/05/2021	10/08/2021	
Surrogate: 4-Bromofluorobenzene	101 %		70-130			"	"	"	

Metals by Saturated Paste

Calcium	ND		4.99	meq/L	100	[CALC]	10/08/2021	10/12/2021	
Magnesium	ND		8.23	"	"	"	"	"	
Sodium	161		4.35	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00033	0.00067	mg/Kg	1	L578131	10/08/2021	10/08/2021	
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	0.000201	0.00014	0.00067	"	"	"	"	"	J
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 - Antelope F-15 West Pad

SS-04@4.5'

10/5/2021 11:51:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y110097-04 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.00029	0.00067	mg/Kg	1	L578131	10/08/2021	10/08/2021
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	78.9 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	78.9 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	68.6 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.19	pH Units	1	B1J0837	10/08/2021	10/09/2021
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SAR by 20B Saturated Paste

SAR	123	SAR	1	B1J0828	10/08/2021	10/12/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	16.1	0.00500	mmhos/cm	1	B1J0839	10/08/2021	10/09/2021
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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 - Antelope F-15 West Pad

FS-01@6'

10/5/2021 11:54:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y110097-05 (Soil)

Boron (DTPA Sorbitol)

Boron	2.90	0.196	mg/L	1	B1J0715	10/07/2021	10/08/2021
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	302	25.0	mg/kg	1	B1J0615	10/06/2021	10/07/2021
Residual Range Organics (C28-C40)	820	100	"	"	"	"	"

Surrogate: o-Terphenyl	60.6 %	50-150	"	"	"
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1J0514	10/05/2021	10/11/2021	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	0.234	0.200	"	"	"	"	"	
Xylenes, total	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	93.9 %	70-130	"	"	"
Surrogate: Toluene-d8	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 - Antelope F-15 West Pad

FS-01@6'

10/5/2021 11:54:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y110097-05 (Soil)

GBTEX+TMBs

Surrogate: 4-Bromofluorobenzene	106 %	70-130		B1J05 14	10/05/2021	10/11/2021
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Metals by Saturated Paste

Calcium	9.63	4.99	meq/L	100	[CALC]	10/08/2021	10/12/2021
Magnesium	ND	8.23	"	"	"	"	"
Sodium	122	4.35	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	0.0138	0.00033	0.00067	mg/Kg	1	L578131	10/08/2021	10/08/2021
2-Methylnaphthalene	0.00954	0.00039	0.00067	"	"	"	"	"
Acenaphthene	0.00116	0.0003	0.00067	"	"	"	"	"
Anthracene	0.000713	0.00033	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.0041	0.0067	"	10	"	"	"
Benzo(a)pyrene	ND	0.0014	0.0067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.0021	0.0067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.0013	0.0067	"	"	"	"	"
Chrysene	ND	0.0027	0.0067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.0036	0.0067	"	"	"	"	"
Fluoranthene	ND	0.00039	0.00067	"	1	"	"	"
Fluorene	0.00932	0.00029	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 - Antelope F-15 West Pad

FS-01@6'

10/5/2021 11:54:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y110097-05 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.0029	0.0067	mg/Kg	10	L578131	10/08/2021	10/08/2021	
Naphthalene	0.00192	0.000467	0.00067	"	1	"	"	"	B
Pyrene	0.00207	0.00059	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	73.7 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	34.1 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	64.7 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.19			pH Units	1	B1J0837	10/08/2021	10/09/2021	
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SAR by 20B Saturated Paste

SAR	49.7			SAR	1	B1J0828	10/08/2021	10/12/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	12.8		0.00500	mmhos/cm	1	B1J0839	10/08/2021	10/09/2021	
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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 - Antelope F-15 West Pad

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 B1J0514 - EPA 5030 (soil)										
Blank (B1J0514-BLK1)					Prepared: 10/05/2021 Analyzed: 10/06/2021					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.00380	"							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
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	95.7		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	95.2		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 - Antelope F-15 West Pad

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 B1J0514 - EPA 5030 (soil)

LCS (B1J0514-BS1)

Prepared: 10/05/2021 Analyzed: 10/06/2021

1,2,4-Trimethylbenzene	0.0463	0.00200	mg/kg	0.0500		92.6	70-130			
Naphthalene	0.0447	0.0100	"	0.0500		89.4	70-130			
1,3,5-Trimethylbenzene	0.0445	0.00200	"	0.0500		89.1	70-130			
Benzene	0.0491	0.00200	"	0.0500		98.2	70-130			
Ethylbenzene	0.0438	0.00200	"	0.0500		87.6	70-130			
m,p-Xylene	0.0913	0.00400	"	0.100		91.3	70-130			
o-Xylene	0.0452	0.00200	"	0.0500		90.3	70-130			
Toluene	0.0479	0.00200	"	0.0500		95.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.4	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 - Antelope F-15 West Pad

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 B1J0514 - EPA 5030 (soil)

Matrix Spike (B1J0514-MS1)		Source: Y110024-01			Prepared: 10/05/2021 Analyzed: 10/06/2021					
1,2,4-Trimethylbenzene	0.0432	0.00200	mg/kg	0.0500	ND	86.3	70-130			
Naphthalene	0.0431	0.0100	"	0.0500	ND	86.2	70-130			
1,3,5-Trimethylbenzene	0.0413	0.00200	"	0.0500	ND	82.6	70-130			
Benzene	0.0470	0.00200	"	0.0500	ND	94.1	70-130			
Ethylbenzene	0.0412	0.00200	"	0.0500	ND	82.4	70-130			
m,p-Xylene	0.0864	0.00400	"	0.100	ND	86.4	70-130			
o-Xylene	0.0431	0.00200	"	0.0500	ND	86.1	70-130			
Toluene	0.0452	0.00200	"	0.0500	ND	90.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.4	70-130			

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Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope F-15 West Pad

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 B1J0514 - EPA 5030 (soil)										
Matrix Spike Dup (B1J0514-MSD1)		Source: Y110024-01			Prepared: 10/05/2021 Analyzed: 10/06/2021					
1,2,4-Trimethylbenzene	0.0438	0.00200	mg/kg	0.0500	ND	87.6	70-130	1.52	20	
Naphthalene	0.0426	0.0100	"	0.0500	ND	85.2	70-130	1.21	20	
1,3,5-Trimethylbenzene	0.0419	0.00200	"	0.0500	ND	83.8	70-130	1.35	20	
Benzene	0.0493	0.00200	"	0.0500	ND	98.6	70-130	4.73	20	
Ethylbenzene	0.0432	0.00200	"	0.0500	ND	86.4	70-130	4.64	20	
m,p-Xylene	0.0892	0.00400	"	0.100	ND	89.2	70-130	3.19	20	
o-Xylene	0.0445	0.00200	"	0.0500	ND	89.1	70-130	3.38	20	
Toluene	0.0475	0.00200	"	0.0500	ND	95.0	70-130	5.01	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.9	70-130			

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Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope F-15 West Pad

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 B1J0615 - EPA 3550B

LCS (B1J0615-BS1)

Prepared: 10/06/2021 Analyzed: 10/07/2021

Diesel (C10-C28)	718	50.0	mg/kg	1000		71.8	70-130			
Residual Range Organics (C28-C40)	825	200	"	1000		82.5	70-130			
Surrogate: o-Terphenyl	33		"	50.0		66.4	50-150			

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Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope F-15 West Pad

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 B1J0615 - EPA 3550B

Matrix Spike (B1J0615-MS1)		Source: Y110096-11			Prepared: 10/06/2021 Analyzed: 10/07/2021					
Diesel (C10-C28)	605	50.0	mg/kg	1000	ND	60.5	70-130			QM-07
Residual Range Organics (C28-C40)	717	200	"	1000	ND	71.7	70-130			
Surrogate: o-Terphenyl	31		"	50.0		61.5	50-150			

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Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope F-15 West Pad

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 B1J0615 - EPA 3550B										
Matrix Spike Dup (B1J0615-MSD1)		Source: Y110096-11			Prepared: 10/06/2021 Analyzed: 10/07/2021					
Diesel (C10-C28)	634	50.0	mg/kg	1000	ND	63.4	70-130	4.73	35	QM-07
Residual Range Organics (C28-C40)	714	200	"	1000	ND	71.4	70-130	0.444	35	
Surrogate: o-Terphenyl	33		"	50.0		65.6	50-150			

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Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope F-15 West Pad

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 B1J0837 - NO PREP

Duplicate (B1J0837-DUP1)

Source: Y110150-03

Prepared: 10/08/2021 Analyzed: 10/09/2021

pH	7.75		pH Units		7.76			0.129	25	
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Batch B1J0839 - NO PREP

Blank (B1J0839-BLK1)

Prepared: 10/08/2021 Analyzed: 10/09/2021

Specific Conductance (EC)	0.00120	0.00500	mmhos/cm							
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Duplicate (B1J0839-DUP1)

Source: Y110150-03

Prepared: 10/08/2021 Analyzed: 10/09/2021

Specific Conductance (EC)	0.790	0.00500	mmhos/cm		0.812			2.73	25	
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Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope F-15 West Pad

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 L578131 - 3550B

MSD (L 97918-MSD-L578131)		Source: 97918			Prepared: 10/08/2021 Analyzed: 10/08/2021					
1-Methylnaphthalene	0.116	0.00033	mg/Kg	0.167	97918	69.4	30-130	2.6	30	
Pyrene	0.13	0.00059	"	0.167	97918	77.8	30-130	6.3	30	
Naphthalene	0.109	0.000467	"	0.167	0.000603	65.2	30-130	1.8	30	
Indeno(1,2,3-cd)pyrene	0.136	0.00029	"	0.167	0.000319	81.4	30-130	6.8	30	
Fluorene	0.124	0.00029	"	0.167	97918	74.2	30-130	3.2	30	
Fluoranthene	0.133	0.00039	"	0.167	97918	79.6	30-130	7	30	
Chrysene	0.128	0.00027	"	0.167	97918	76.6	30-130	2.3	30	
Benzo(b)fluoranthene	0.145	0.00021	"	0.167	97918	86.8	30-130	4.9	30	
Benzo(a)pyrene	0.132	0.00014	"	0.167	0.000274	79	30-130	3.8	30	
Benzo(a)anthracene	0.131	0.00041	"	0.167	97918	78.4	30-130	6.2	30	
Anthracene	0.126	0.00033	"	0.167	97918	75.4	30-130	4.8	30	
Acenaphthene	0.119	0.0003	"	0.167	97918	71.2	30-130	0.8	30	
Dibenz(a,h)anthracene	0.14	0.00036	"	0.167	97918	83.8	30-130	2.1	30	
2-Methylnaphthalene	0.115	0.00039	"	0.167	97918	68.8	30-130	2.6	30	
Benzo(k)fluoranthene	0.126	0.00013	"	0.167	97918	75.4	30-130	4	30	
Surrogate: Nitrobenzene-d5	72.3		"	0.333	239	72.3	29-110			
Surrogate: 4-Terphenyl-d14	83.7		"	0.333	262	83.7	33-122			
Surrogate: 2-Fluorobiphenyl	84.9		"	0.333	272	84.9	33-115			

MS (L 97918-MS-L578131)		Source: 97918			Prepared: 10/08/2021 Analyzed: 10/08/2021					
Benzo(b)fluoranthene	0.138	0.00021	mg/Kg	0.163	97918	84.6	30-130			
Naphthalene	0.107	0.000467	"	0.163	0.000603	65.6	30-130			
Indeno(1,2,3-cd)pyrene	0.127	0.00029	"	0.163	0.000319	77.9	30-130			
Fluorene	0.12	0.00029	"	0.163	97918	73.6	30-130			
Fluoranthene	0.124	0.00039	"	0.163	97918	76	30-130			
Dibenz(a,h)anthracene	0.137	0.00036	"	0.163	97918	84	30-130			
Pyrene	0.122	0.00059	"	0.163	97918	74.8	30-130			

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Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope F-15 West Pad

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 L578131 - 3550B

MS (L 97918-MS-L578131)		Source: 97918			Prepared: 10/08/2021 Analyzed: 10/08/2021					
Benzo(k)fluoranthene	0.121	0.00013	mg/Kg	0.163	97918	74.2	30-130			
Benzo(a)pyrene	0.127	0.00014	"	0.163	0.000274	77.9	30-130			
Benzo(a)anthracene	0.123	0.00041	"	0.163	97918	75.4	30-130			
Anthracene	0.12	0.00033	"	0.163	97918	73.6	30-130			
Acenaphthene	0.118	0.0003	"	0.163	97918	72.3	30-130			
2-Methylnaphthalene	0.112	0.00039	"	0.163	97918	68.7	30-130			
1-Methylnaphthalene	0.113	0.00033	"	0.163	97918	69.3	30-130			
Chrysene	0.125	0.00027	"	0.163	97918	76.6	30-130			
Surrogate: Nitrobenzene-d5	73		"	0.327	239	73	29-110			
Surrogate: 4-Terphenyl-d14	81.9		"	0.327	262	81.9	33-122			
Surrogate: 2-Fluorobiphenyl	87.1		"	0.327	272	87.1	33-115			

LCS (LCS-L578131)		Prepared: 10/08/2021 Analyzed: 10/08/2021								
Indeno(1,2,3-cd)pyrene	0.156	0.00029	mg/Kg	0.167		93.4	30-130			
Benzo(b)fluoranthene	0.131	0.00021	"	0.167		78.4	30-130			
Benzo(a)pyrene	0.127	0.00014	"	0.167		76	30-130			
Pyrene	0.131	0.00059	"	0.167		78.4	30-130			
Naphthalene	0.11	0.000467	"	0.167		65.8	30-130			
Fluorene	0.123	0.00029	"	0.167		73.6	30-130			
Fluoranthene	0.133	0.00039	"	0.167		79.6	30-130			
Dibenz(a,h)anthracene	0.161	0.00036	"	0.167		96.4	30-130			
Chrysene	0.127	0.00027	"	0.167		76	30-130			
Benzo(k)fluoranthene	0.145	0.00013	"	0.167		86.8	30-130			
Benzo(a)anthracene	0.128	0.00041	"	0.167		76.6	30-130			
Anthracene	0.122	0.00033	"	0.167		73	30-130			
Acenaphthene	0.119	0.0003	"	0.167		71.2	30-130			
2-Methylnaphthalene	0.115	0.00039	"	0.167		68.8	30-130			

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Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope F-15 West Pad

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 L578131 - 3550B

LCS (LCS-L578131)

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

1-Methylnaphthalene	0.115	0.00033	mg/Kg	0.167		68.8	30-130			
Surrogate: Nitrobenzene-d5	73.5		"	0.333		73.5	29-110			
Surrogate: 2-Fluorobiphenyl	84.3		"	0.333		84.3	33-115			
Surrogate: 4-Terphenyl-d14	83.4		"	0.333		83.4	33-122			

LRB (LRB-L578131)

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

2-Methylnaphthalene	ND	0.00067	mg/Kg				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Naphthalene	0.000473	0.00067	"				-			J
1-Methylnaphthalene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Surrogate: 2-Fluorobiphenyl	81.9		"	0.333		81.9	33-115			
Surrogate: 4-Terphenyl-d14	83.7		"	0.333		83.7	33-122			
Surrogate: Nitrobenzene-d5	76.5		"	0.333		76.5	29-110			

Batch L578373 - 3550B

MSD (L 97865-MSD-L578373)

Source: Y110097-03

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

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Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope F-15 West Pad

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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 L578373 - 3550B

MSD (L 97865-MSD-L578373)		Source: Y110097-03			Prepared: 10/11/2021 Analyzed: 10/11/2021					
Dibenz(a,h)anthracene	0.134	0.00036	mg/Kg	0.166	97865	80.7	30-130	17.8	30	
Fluoranthene	0.132	0.00039	"	0.166	97865	79.5	30-130	11.2	30	
Fluorene	0.122	0.00029	"	0.166	0.000312	73.4	30-130	9.4	30	
Indeno(1,2,3-cd)pyrene	0.129	0.00029	"	0.166	0.000355	77.7	30-130	16.8	30	
Chrysene	0.127	0.00027	"	0.166	97865	76.5	30-130	8.1	30	
Acenaphthene	0.116	0.0003	"	0.166	97865	69.8	30-130	8	30	
Naphthalene	0.104	0.000467	"	0.166	97865	62.6	30-130	8.3	30	
Pyrene	0.128	0.00059	"	0.166	97865	77.1	30-130	10.6	30	
Benzo(b)fluoranthene	0.109	0.00021	"	0.166	97865	65.6	30-130	12.9	30	
Benzo(a)pyrene	0.131	0.00014	"	0.166	0.000203	78.9	30-130	12.1	30	
Anthracene	0.125	0.00033	"	0.166	97865	75.3	30-130	9.2	30	
2-Methylnaphthalene	0.111	0.00039	"	0.166	0.000511	66.8	30-130	8.4	30	
1-Methylnaphthalene	0.109	0.00033	"	0.166	97865	65.6	30-130	7.6	30	
Benzo(a)anthracene	0.129	0.00041	"	0.166	97865	77.7	30-130	9.7	30	
Benzo(k)fluoranthene	0.115	0.00013	"	0.166	97865	69.2	30-130	19.6	30	
Surrogate: Nitrobenzene-d5	67.7		"	0.332	198	67.7	29-110			
Surrogate: 4-Terphenyl-d14	81.3		"	0.332	242	81.3	33-122			
Surrogate: 2-Fluorobiphenyl	78.9		"	0.332	242	78.9	33-115			

MS (L 97865-MS-L578373)		Source: Y110097-03			Prepared: 10/11/2021 Analyzed: 10/11/2021					
Indeno(1,2,3-cd)pyrene	0.109	0.00029	mg/Kg	0.165	0.000355	66	30-130			
Pyrene	0.115	0.00059	"	0.165	97865	69.6	30-130			
Naphthalene	0.0957	0.000467	"	0.165	97865	58	30-130			
Fluorene	0.111	0.00029	"	0.165	0.000312	67.2	30-130			
Fluoranthene	0.118	0.00039	"	0.165	97865	71.5	30-130			
Dibenz(a,h)anthracene	0.112	0.00036	"	0.165	97865	67.8	30-130			
Chrysene	0.117	0.00027	"	0.165	97865	70.9	30-130			

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Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope F-15 West Pad

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 L578373 - 3550B

MS (L 97865-MS-L578373)		Source: Y110097-03			Prepared: 10/11/2021 Analyzed: 10/11/2021					
Benzo(b)fluoranthene	0.0957	0.00021	mg/Kg	0.165	97865	58	30-130			
Benzo(a)pyrene	0.116	0.00014	"	0.165	0.000203	70.3	30-130			
Benzo(a)anthracene	0.117	0.00041	"	0.165	97865	70.9	30-130			
Anthracene	0.114	0.00033	"	0.165	97865	69	30-130			
Acenaphthene	0.107	0.0003	"	0.165	97865	64.8	30-130			
1-Methylnaphthalene	0.101	0.00033	"	0.165	97865	61.2	30-130			
Benzo(k)fluoranthene	0.0944	0.00013	"	0.165	97865	57.2	30-130			
2-Methylnaphthalene	0.102	0.00039	"	0.165	0.000511	61.8	30-130			
Surrogate: 4-Terphenyl-d14	76		"	0.33	242	76	33-122			
Surrogate: Nitrobenzene-d5	60.9		"	0.33	198	60.9	29-110			
Surrogate: 2-Fluorobiphenyl	73.3		"	0.33	242	73.3	33-115			

LCS (LCS-L578373)

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

Dibenz(a,h)anthracene	0.142	0.00036	mg/Kg	0.167		85	30-130
Fluoranthene	0.145	0.00039	"	0.167		86.8	30-130
Fluorene	0.138	0.00029	"	0.167		82.6	30-130
Indeno(1,2,3-cd)pyrene	0.14	0.00029	"	0.167		83.8	30-130
Acenaphthene	0.133	0.0003	"	0.167		79.6	30-130
2-Methylnaphthalene	0.127	0.00039	"	0.167		76	30-130
1-Methylnaphthalene	0.126	0.00033	"	0.167		75.4	30-130
Chrysene	0.145	0.00027	"	0.167		86.8	30-130
Naphthalene	0.119	0.000467	"	0.167		71.2	30-130
Benzo(a)pyrene	0.147	0.00014	"	0.167		88	30-130
Pyrene	0.142	0.00059	"	0.167		85	30-130
Benzo(b)fluoranthene	0.123	0.00021	"	0.167		73.6	30-130
Benzo(k)fluoranthene	0.124	0.00013	"	0.167		74.2	30-130
Benzo(a)anthracene	0.145	0.00041	"	0.167		86.8	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 - Antelope F-15 West Pad

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 L578373 - 3550B

LCS (LCS-L578373)

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

Anthracene	0.136	0.00033	mg/Kg	0.167		81.4	30-130			
Surrogate: 2-Fluorobiphenyl	91.5		"	0.333		91.5	33-115			
Surrogate: Nitrobenzene-d5	78.9		"	0.333		78.9	29-110			
Surrogate: 4-Terphenyl-d14	93.3		"	0.333		93.3	33-122			

LRB (LRB-L578373)

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

Acenaphthene	ND	0.00067	mg/Kg				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
2-Methylnaphthalene	0.000471	0.00067	"				-			J
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	"				-			
Surrogate: 2-Fluorobiphenyl	83.7		"	0.333		83.7	33-115			
Surrogate: 4-Terphenyl-d14	85.8		"	0.333		85.8	33-122			
Surrogate: Nitrobenzene-d5	77.4		"	0.333		77.4	29-110			

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 - Antelope F-15 West Pad

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
Batch L578053 - 3050B										
MSD (L 97406-MSD-L578053)			Source: 97406		Prepared: 10/07/2021 Analyzed: 10/08/2021					
Zinc	95.2	0.534	mg/Kg	24.9	74.2	84	75-125	3.2	80	
Nickel	3.5	0.0633	"	2.49	0.86	106	75-125	8.6	80	
Lead	2.47	0.062	"	2.49	0.438	99	75-125	8.8	80	
Silver	0.73	0.0067	"	0.498	0.219	147	75-125	0.8	80	*
Selenium	4.81	0.103	"	4.98	0.209	97	75-125	1	80	
Copper	17.3	0.0806	"	2.49	15.5	72	75-125	7.8	80	*
Cadmium	0.56	0.0259	"	0.498	0.0646	112	75-125	8.3	80	
Barium	16.6	0.042	"	4.98	11.2	108	75-125	12.1	80	
Arsenic	2.39	0.0855	"	2.49	0.123	96	75-125	2.1	80	
MS (L 97406-MS-L578053)			Source: 97406		Prepared: 10/07/2021 Analyzed: 10/08/2021					
Barium	14.7	0.042	mg/Kg	4.92	11.2	71	75-125			*
Cadmium	0.515	0.0259	"	0.492	0.0646	105	75-125			
Copper	16	0.0806	"	2.46	15.5	20	75-125			*
Lead	2.26	0.062	"	2.46	0.438	92	75-125			
Nickel	3.21	0.0633	"	2.46	0.86	96	75-125			
Selenium	4.86	0.103	"	4.92	0.209	99	75-125			
Silver	0.724	0.0067	"	0.492	0.219	147	75-125			*
Arsenic	2.34	0.0855	"	2.46	0.123	95	75-125			
Zinc	92.2	0.534	"	24.6	74.2	73	75-125			*
LCS (LCS-L578053)			Prepared: 10/07/2021 Analyzed: 10/08/2021							
Silver	0.509	0.0067	mg/Kg	0.5		102	80-120			
Zinc	24.5	0.534	"	25		98	80-120			
Barium	5.1	0.042	"	5		102	80-120			
Arsenic	2.39	0.0855	"	2.5		96	80-120			
Selenium	4.92	0.103	"	5		98	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 - Antelope F-15 West Pad

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 L578053 - 3050B

LCS (LCS-L578053)

Prepared: 10/07/2021 Analyzed: 10/08/2021

Cadmium	0.489	0.0259	mg/Kg	0.5		98	80-120			
Copper	2.45	0.0806	"	2.5		98	80-120			
Lead	2.49	0.031	"	2.5		100	80-120			
Nickel	2.41	0.0633	"	2.5		96	80-120			

LRB (LRB-L578053)

Prepared: 10/07/2021 Analyzed: 10/08/2021

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

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope F-15 West Pad

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 L578389 -										
DUP (L 98514-DUP)		Source: 98514			Prepared: Analyzed: 10/11/2021					
Chromium, Hexavalent	ND	0.244	mg/Kg		98514	-		0	20	
MS (L 98514-MS)		Source: 98514			Prepared: Analyzed: 10/11/2021					
Chromium, Hexavalent	4.48	0.244	mg/Kg	7.86	98514	57	75-125			*
LCS (LCS)					Prepared: Analyzed: 10/11/2021					
Chromium, Hexavalent	6.97	0.244	mg/Kg	8		87	75-125			
LRB (LRB)					Prepared: Analyzed: 10/11/2021					
Chromium, Hexavalent	ND	0.5	mg/Kg							

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope F-15 West Pad

Notes and Definitions

U Sample is Non-Detect.

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

JB [Undefined]

J Estimated Value. Analyte below reported quantitation limit.

B Analyte detected in associated method blank.

* 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.



November 22, 2021

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Bonanza - Antelope F-15 West

Project Number - -

Attached are your analytical results for Bonanza - Antelope F-15 West received by Origins Laboratory, Inc. November 12, 2021. This project is associated with Origins project number Y111249-01.

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: -
Project: Bonanza - Antelope F-15 West

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CS-SS-01@5.5'	Y111249-01	Soil	November 12, 2021 11:20	11/12/2021 13:30
CS-SS-02@5.5'	Y111249-02	Soil	November 12, 2021 11:21	11/12/2021 13:30
CS-SS-03@5.5'	Y111249-03	Soil	November 12, 2021 11:22	11/12/2021 13:30
CS-SS-04@5.5'	Y111249-04	Soil	November 12, 2021 11:23	11/12/2021 13:30
CS-FS-01@7'	Y111249-05	Soil	November 12, 2021 11:24	11/12/2021 13:30

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: -
Project: Bonanza - Antelope F-15 West

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 111124

Client: Eagle

Client Project ID: Antelope F-15 West

Checklist Completed by: JH

Shipped Via: FD

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 11/12/21

Airbill #: 44

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

Cooler Number/Temperature: 1137 °C °C °C (Describe) °C

Thermometer ID: T007

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 HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +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 11/15/21

Origins Laboratory, Inc.



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

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

Martin C Eckert III
Project Number: -
Project: Bonanza - Antelope F-15 West

CS-SS-01@5.5'

11/12/2021 11:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y111249-01 (Soil)

Boron (DTPA Sorbitol)

Boron	3.18	0.200	mg/L	1	B1K1207	11/12/2021	11/15/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1K1803	11/18/2021	11/19/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1K1523	11/15/2021	11/17/2021	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	92.6 %	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: -
Project: Bonanza - Antelope F-15 West

CS-SS-01@5.5'

11/12/2021 11:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y111249-01 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	90.7 %	70-130	B1K15 23	11/15/2021	11/17/2021
Surrogate: 4-Bromofluorobenzene	99.3 %	70-130	"	"	"

Metals by Saturated Paste

Calcium	2.34	0.499	meq/L	10	[CALC]	11/12/2021	11/16/2021
Magnesium	ND	0.823	"	"	"	"	"
Sodium	53.8	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	0.000504	0.00033	0.00067	mg/Kg	1	L585419	11/18/2021	11/18/2021	J
2-Methylnaphthalene	0.000841	0.00039	0.00067	"	"	"	"	"	
Acenaphthene	0.000354	0.0003	0.00067	"	"	"	"	"	J
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	0.000596	0.00027	0.00067	"	"	"	"	"	J
Dibenz(a,h)anthracene	ND	0.00036	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.00039	0.00067	"	"	"	"	"	
Fluorene	ND	0.00029	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: -
Project: Bonanza - Antelope F-15 West

CS-SS-01@5.5'

11/12/2021 11:20:00AM

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

Y111249-01 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.00029	0.00067	mg/Kg	1	L585419	11/18/2021	11/18/2021	
Naphthalene	0.000601	0.000467	0.00067	"	"	"	"	"	J
Pyrene	ND	0.00059	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	61.7 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	72.4 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	50 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.30	pH Units	1	B1K1210	11/12/2021	11/16/2021
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SAR by 20B Saturated Paste

SAR	44.2	SAR	1	B1K1208	11/12/2021	11/16/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	5.98	0.00500	mmhos/cm	1	B1K1209	11/12/2021	11/18/2021
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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: -
Project: Bonanza - Antelope F-15 West

CS-SS-02@5.5'

11/12/2021 11:21:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y111249-02 (Soil)

Boron (DTPA Sorbitol)

Boron	3.92	0.200	mg/L	1	B1K1207	11/12/2021	11/15/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1K1803	11/18/2021	11/19/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	97.9 %	50-150	"	"	"
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1K1523	11/15/2021	11/17/2021	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	92.1 %	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: -
Project: Bonanza - Antelope F-15 West

CS-SS-02@5.5'

11/12/2021 11:21:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y111249-02 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	91.8 %	70-130	B1K15 23	11/15/2021	11/17/2021
Surrogate: 4-Bromofluorobenzene	99.1 %	70-130	"	"	"

Metals by Saturated Paste

Calcium	63.0	4.99	meq/L	100	[CALC]	11/12/2021	11/16/2021
Magnesium	16.6	8.23	"	"	"	"	"
Sodium	254	4.35	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	0.000397	0.00033	0.00067	mg/Kg	1	L585419	11/18/2021	11/18/2021	J
2-Methylnaphthalene	0.000558	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	0.000363	0.00014	0.00067	"	"	"	"	"	J
Benzo(b)fluoranthene	ND	0.00021	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00013	0.00067	"	"	"	"	"	
Chrysene	0.00181	0.00027	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	0.000385	0.00036	0.00067	"	"	"	"	"	J
Fluoranthene	ND	0.00039	0.00067	"	"	"	"	"	
Fluorene	ND	0.00029	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: -
Project: Bonanza - Antelope F-15 West

CS-SS-02@5.5'

11/12/2021 11:21:00AM

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

Y111249-02 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.00029	0.00067	mg/Kg	1	L585419	11/18/2021	11/18/2021	
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"	
Pyrene	0.000631	0.00059	0.00067	"	"	"	"	"	J

Surrogate: 2-Fluorobiphenyl	57.8 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	67.1 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	47.7 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.74			pH Units	1	B1K1210	11/12/2021	11/16/2021	
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SAR by 20B Saturated Paste

SAR	40.2			SAR	1	B1K1208	11/12/2021	11/16/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	25.6		0.00500	mmhos/cm	1	B1K1209	11/12/2021	11/18/2021	
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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: -
Project: Bonanza - Antelope F-15 West

CS-SS-03@5.5'

11/12/2021 11:22:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y111249-03 (Soil)

Boron (DTPA Sorbitol)

Boron	5.75	0.200	mg/L	1	B1K1207	11/12/2021	11/15/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1K1803	11/18/2021	11/19/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	88.2 %	50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1K1523	11/15/2021	11/17/2021	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	96.6 %	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: -
Project: Bonanza - Antelope F-15 West

CS-SS-03@5.5'

11/12/2021 11:22:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y111249-03 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	90.9 %		70-130			B1K15 23	11/15/2021	11/17/2021	
Surrogate: 4-Bromofluorobenzene	98.7 %		70-130			"	"	"	

Metals by Saturated Paste

Calcium	3.07		0.499	meq/L	10	[CALC]	11/12/2021	11/16/2021	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	77.9		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00033	0.00067	mg/Kg	1	L585419	11/18/2021	11/18/2021	
2-Methylnaphthalene	ND	0.00039	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.0003	0.00067	"	"	"	"	"	
Anthracene	ND	0.00033	0.00067	"	"	"	"	"	
Benzo(a)anthracene	0.00044	0.00041	0.00067	"	"	"	"	"	J
Benzo(a)pyrene	0.000574	0.00014	0.00067	"	"	"	"	"	J
Benzo(b)fluoranthene	0.00101	0.00021	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	0.000691	0.00013	0.00067	"	"	"	"	"	
Chrysene	0.000344	0.00027	0.00067	"	"	"	"	"	J
Dibenz(a,h)anthracene	0.00157	0.00036	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.00039	0.00067	"	"	"	"	"	
Fluorene	ND	0.00029	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: -
Project: Bonanza - Antelope F-15 West

CS-SS-03@5.5'

11/12/2021 11:22:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y111249-03 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	0.0016	0.00029	0.00067	mg/Kg	1	L585419	11/18/2021	11/18/2021	
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"	
Pyrene	ND	0.00059	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	60.1 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	70.1 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	49.2 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.26			pH Units	1	B1K1210	11/12/2021	11/16/2021	
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SAR by 20B Saturated Paste

SAR	57.2			SAR	1	B1K1208	11/12/2021	11/16/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	8.47		0.00500	mmhos/cm	1	B1K1209	11/12/2021	11/18/2021	
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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: -
Project: Bonanza - Antelope F-15 West

CS-SS-04@5.5'

11/12/2021 11:23:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y111249-04 (Soil)

Boron (DTPA Sorbitol)

Boron	5.98	0.199	mg/L	1	B1K1207	11/12/2021	11/15/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1K1803	11/18/2021	11/19/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1K1523	11/15/2021	11/17/2021	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	95.3 %	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: -
Project: Bonanza - Antelope F-15 West

CS-SS-04@5.5'

11/12/2021 11:23:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y111249-04 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	91.0 %		70-130			B1K15 23	11/15/2021	11/17/2021	
Surrogate: 4-Bromofluorobenzene	99.3 %		70-130			"	"	"	

Metals by Saturated Paste

Calcium	1.83		0.499	meq/L	10	[CALC]	11/12/2021	11/16/2021	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	93.1		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00033	0.00067	mg/Kg	1	L585419	11/18/2021	11/18/2021	
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: -
Project: Bonanza - Antelope F-15 West

CS-SS-04@5.5'

11/12/2021 11:23:00AM

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

Y111249-04 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.00029	0.00067	mg/Kg	1	L585419	11/18/2021	11/18/2021
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	60.4 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	70.4 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	47.1 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.32	pH Units	1	B1K1210	11/12/2021	11/16/2021
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SAR by 20B Saturated Paste

SAR	90.2	SAR	1	B1K1208	11/12/2021	11/16/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	9.86	0.00500	mmhos/cm	1	B1K1209	11/12/2021	11/18/2021
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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: -
Project: Bonanza - Antelope F-15 West

CS-FS-01@7'

11/12/2021 11:24:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y111249-05 (Soil)

Boron (DTPA Sorbitol)

Boron	4.44	0.197	mg/L	1	B1K1507	11/15/2021	11/16/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1K1803	11/18/2021	11/19/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	103 %	50-150	"	"	"
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1K1523	11/15/2021	11/17/2021	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	93.5 %	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: -
Project: Bonanza - Antelope F-15 West

CS-FS-01@7'

11/12/2021 11:24:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y111249-05 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	90.8 %	70-130	B1K15 23	11/15/2021	11/17/2021
Surrogate: 4-Bromofluorobenzene	99.6 %	70-130	"	"	"

Metals by Saturated Paste

Calcium	11.7	4.99	meq/L	100	[CALC]	11/15/2021	11/16/2021
Magnesium	ND	8.23	"	"	"	"	"
Sodium	106	4.35	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	0.000451	0.00033	0.00067	mg/Kg	1	L585419	11/18/2021	11/18/2021	J
2-Methylnaphthalene	0.000419	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: -
Project: Bonanza - Antelope F-15 West

CS-FS-01@7'

11/12/2021 11:24:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y111249-05 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.00029	0.00067	mg/Kg	1	L585419	11/18/2021	11/18/2021
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	60 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	72.6 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	47.4 %	29-110	"	"	"

pH in Soil by 9045D

pH	7.38	pH Units	1	B1K1511	11/15/2021	11/16/2021
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SAR by 20B Saturated Paste

SAR	37.9	SAR	1	B1K1502	11/15/2021	11/16/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	12.6	0.00500	mmhos/cm	1	B1K1501	11/15/2021	11/16/2021
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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: -
Project: Bonanza - Antelope F-15 West

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 B1K1523 - EPA 5030 (soil)										
Blank (B1K1523-BLK1)					Prepared: 11/15/2021 Analyzed: 11/17/2021					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.0100	"							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Xylenes, total	ND	0.00200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125	92.0		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	92.6		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	99.1		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: -
Project: Bonanza - Antelope F-15 West

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 B1K1523 - EPA 5030 (soil)										
LCS (B1K1523-BS1)					Prepared: 11/15/2021 Analyzed: 11/17/2021					
1,2,4-Trimethylbenzene	0.0919	0.00200	mg/kg	0.100		91.9	70-130			
Naphthalene	0.0839	0.0100	"	0.100		83.9	70-130			
1,3,5-Trimethylbenzene	0.0945	0.00200	"	0.100		94.5	70-130			
Benzene	0.110	0.00200	"	0.100		110	70-130			
Ethylbenzene	0.0922	0.00200	"	0.100		92.2	70-130			
m,p-Xylene	0.199	0.00400	"	0.200		99.5	70-130			
o-Xylene	0.0905	0.00200	"	0.100		90.5	70-130			
Toluene	0.0981	0.00200	"	0.100		98.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		89.7	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.7	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: -
Project: Bonanza - Antelope F-15 West

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 B1K1523 - EPA 5030 (soil)										
Matrix Spike (B1K1523-MS1)		Source: Y111235-04			Prepared: 11/15/2021 Analyzed: 11/17/2021					
1,2,4-Trimethylbenzene	0.0898	0.00200	mg/kg	0.100	0.0107	79.1	70-130			
Naphthalene	0.0762	0.0100	"	0.100	0.0125	63.6	70-130			QM-07
1,3,5-Trimethylbenzene	0.0890	0.00200	"	0.100	0.00220	86.8	70-130			
Benzene	0.105	0.00200	"	0.100	ND	105	70-130			
Ethylbenzene	0.0899	0.00200	"	0.100	ND	89.9	70-130			
m,p-Xylene	0.194	0.00400	"	0.200	ND	97.0	70-130			
o-Xylene	0.0878	0.00200	"	0.100	ND	87.8	70-130			
Toluene	0.0945	0.00200	"	0.100	ND	94.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		90.0	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		92.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.4	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: -
Project: Bonanza - Antelope F-15 West

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 B1K1523 - EPA 5030 (soil)										
Matrix Spike Dup (B1K1523-MSD1)		Source: Y111235-04			Prepared: 11/15/2021 Analyzed: 11/17/2021					
1,2,4-Trimethylbenzene	0.0893	0.00200	mg/kg	0.100	0.0107	78.5	70-130	0.581	20	
Naphthalene	0.0720	0.0100	"	0.100	0.0125	59.5	70-130	5.59	20	QM-07
1,3,5-Trimethylbenzene	0.0853	0.00200	"	0.100	0.00220	83.1	70-130	4.20	20	
Benzene	0.103	0.00200	"	0.100	ND	103	70-130	1.31	20	
Ethylbenzene	0.0855	0.00200	"	0.100	ND	85.5	70-130	5.04	20	
m,p-Xylene	0.184	0.00400	"	0.200	ND	91.9	70-130	5.38	20	
o-Xylene	0.0837	0.00200	"	0.100	ND	83.7	70-130	4.78	20	
Toluene	0.0922	0.00200	"	0.100	ND	92.2	70-130	2.53	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		91.7	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.2	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: -
Project: Bonanza - Antelope F-15 West

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 B1K1803 - EPA 3550B										
Blank (B1K1803-BLK1)					Prepared: 11/18/2021 Analyzed: 11/18/2021					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	26		"	24.9		104	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: -
Project: Bonanza - Antelope F-15 West

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 B1K1803 - EPA 3550B

LCS (B1K1803-BS1)

Prepared: 11/18/2021 Analyzed: 11/18/2021

Diesel (C10-C28)	397	25.0	mg/kg	500		79.5	70-130			
Residual Range Organics (C28-C40)	368	100	"	500		73.5	70-130			
Surrogate: o-Terphenyl	24		"	24.9		98.0	50-150			

Origins Laboratory, Inc.



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Jordan A. Merrill, Project Manager

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

Martin C Eckert III
Project Number: -
Project: Bonanza - Antelope F-15 West

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 B1K1803 - EPA 3550B

Matrix Spike (B1K1803-MS1)		Source: Y111353-02			Prepared: 11/18/2021 Analyzed: 11/18/2021					
Diesel (C10-C28)	480	25.0	mg/kg	500	ND	96.0	70-130			
Residual Range Organics (C28-C40)	471	100	"	500	ND	94.2	70-130			
Surrogate: o-Terphenyl	25		"	24.9		102	50-150			

Origins Laboratory, Inc.



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Jordan A. Merrill, Project Manager

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

Martin C Eckert III
Project Number: -
Project: Bonanza - Antelope F-15 West

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 B1K1803 - EPA 3550B

Matrix Spike Dup (B1K1803-MSD1)		Source: Y111353-02			Prepared: 11/18/2021 Analyzed: 11/18/2021					
Diesel (C10-C28)	476	25.0	mg/kg	500	ND	95.2	70-130	0.833	35	
Residual Range Organics (C28-C40)	456	100	"	500	ND	91.3	70-130	3.19	35	
Surrogate: o-Terphenyl	27		"	24.9		109	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: -
Project: Bonanza - Antelope F-15 West

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 B1K1209 - NO PREP

Blank (B1K1209-BLK1)

Prepared: 11/12/2021 Analyzed: 11/18/2021

Specific Conductance (EC) 0.00180 0.00500 mmhos/cm

Duplicate (B1K1209-DUP1)

Source: Y111239-02

Prepared: 11/12/2021 Analyzed: 11/18/2021

Specific Conductance (EC) 0.659 0.00500 mmhos/cm

0.814 21.0 25

Batch B1K1210 - NO PREP

Duplicate (B1K1210-DUP1)

Source: Y111259-25

Prepared: 11/12/2021 Analyzed: 11/16/2021

pH 7.95 pH Units

7.74 2.68 25

Batch B1K1501 - NO PREP

Blank (B1K1501-BLK1)

Prepared: 11/15/2021 Analyzed: 11/16/2021

Specific Conductance (EC) 0.000800 0.00500 mmhos/cm

Duplicate (B1K1501-DUP1)

Source: Y111250-01

Prepared: 11/15/2021 Analyzed: 11/16/2021

Specific Conductance (EC) 1.15 0.00500 mmhos/cm

1.33 14.7 25

Batch B1K1511 - NO PREP

Duplicate (B1K1511-DUP1)

Source: Y111250-01

Prepared: 11/15/2021 Analyzed: 11/16/2021

pH 7.36 pH Units

7.38 0.271 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: -
Project: Bonanza - Antelope F-15 West

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 L585419 - 3550B

MSD (L 98279-MSD-L585419)		Source: Y111249-01			Prepared: 11/18/2021 Analyzed: 11/18/2021					
Naphthalene	0.122	0.000467	mg/Kg	0.163	0.000601	74.8	30-130	4.1	30	
Pyrene	0.141	0.00059	"	0.163	<0.000590	86.5	30-130	1.4	30	
Indeno(1,2,3-cd)pyrene	0.175	0.00029	"	0.163	<0.000290	107	30-130	29.6	30	
Fluorene	0.139	0.00029	"	0.163	<0.000290	85.2	30-130	2.1	30	
Fluoranthene	0.144	0.00039	"	0.163	<0.000390	88.3	30-130	0	30	
Dibenz(a,h)anthracene	0.196	0.00036	"	0.163	<0.000360	120	30-130	26.9	30	
Chrysene	0.134	0.00027	"	0.163	0.000596	82.2	30-130	1.5	30	
Benzo(k)fluoranthene	0.181	0.00013	"	0.163	<0.000130	111	30-130	4.3	30	
2-Methylnaphthalene	0.126	0.00039	"	0.163	0.000841	76.7	30-130	4.8	30	
Benzo(a)pyrene	0.156	0.00014	"	0.163	<0.000140	95.7	30-130	1.2	30	
Benzo(a)anthracene	0.137	0.00041	"	0.163	<0.000410	84	30-130	2.1	30	
1-Methylnaphthalene	0.127	0.00033	"	0.163	0.000504	77.9	30-130	4.8	30	
Anthracene	0.135	0.00033	"	0.163	<0.000330	82.8	30-130	0.7	30	
Acenaphthene	0.135	0.0003	"	0.163	0.000354	82.8	30-130	3	30	
Benzo(b)fluoranthene	0.155	0.00021	"	0.163	<0.000210	95	30-130	2.5	30	
Surrogate: Nitrobenzene-d5	52.2		%	0.327	163	52.2	29-110			
Surrogate: 4-Terphenyl-d14	73.7		"	0.327	236	73.7	33-122			
Surrogate: 2-Fluorobiphenyl	62.9		"	0.327	201	62.9	33-115			

MS (L 98279-MS-L585419)		Source: Y111249-01			Prepared: 11/18/2021 Analyzed: 11/18/2021					
Chrysene	0.132	0.00027	mg/Kg	0.163	0.000596	80.9	30-130			
Dibenz(a,h)anthracene	0.257	0.00036	"	0.163	<0.000360	158	30-130			*
Fluoranthene	0.144	0.00039	"	0.163	<0.000390	88.3	30-130			
Fluorene	0.136	0.00029	"	0.163	<0.000290	83.4	30-130			
Benzo(k)fluoranthene	0.189	0.00013	"	0.163	<0.000130	116	30-130			
Naphthalene	0.117	0.000467	"	0.163	0.000601	71.7	30-130			
Anthracene	0.136	0.00033	"	0.163	<0.000330	83.4	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: -
Project: Bonanza - Antelope F-15 West

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 L585419 - 3550B

MS (L 98279-MS-L585419)		Source: Y111249-01			Prepared: 11/18/2021 Analyzed: 11/18/2021					
Indeno(1,2,3-cd)pyrene	0.236	0.00029	mg/Kg	0.163	<0.000290	145	30-130			*
1-Methylnaphthalene	0.121	0.00033	"	0.163	0.000504	74.2	30-130			
Benzo(b)fluoranthene	0.159	0.00021	"	0.163	<0.000210	97.5	30-130			
Benzo(a)anthracene	0.14	0.00041	"	0.163	<0.000410	85.8	30-130			
Acenaphthene	0.131	0.0003	"	0.163	0.000354	80.3	30-130			
2-Methylnaphthalene	0.12	0.00039	"	0.163	0.000841	73.1	30-130			
Pyrene	0.143	0.00059	"	0.163	<0.000590	87.7	30-130			
Benzo(a)pyrene	0.154	0.00014	"	0.163	<0.000140	94.4	30-130			
Surrogate: Nitrobenzene-d5	49		%	0.326	163	49	29-110			
Surrogate: 2-Fluorobiphenyl	59.8		"	0.326	201	59.8	33-115			
Surrogate: 4-Terphenyl-d14	73.3		"	0.326	236	73.3	33-122			

LCS (LCS-L585419)

Prepared: 11/18/2021 Analyzed: 11/18/2021

Chrysene	0.133	0.00027	mg/Kg	0.167		79.6	30-130
Benzo(k)fluoranthene	0.166	0.00013	"	0.167		99.4	30-130
Pyrene	0.141	0.00059	"	0.167		84.4	30-130
Naphthalene	0.117	0.000467	"	0.167		70	30-130
Indeno(1,2,3-cd)pyrene	0.184	0.00029	"	0.167		110	30-130
Fluorene	0.135	0.00029	"	0.167		80.8	30-130
Benzo(b)fluoranthene	0.161	0.00021	"	0.167		96.4	30-130
Dibenz(a,h)anthracene	0.202	0.00036	"	0.167		121	30-130
1-Methylnaphthalene	0.122	0.00033	"	0.167		73	30-130
Benzo(a)pyrene	0.157	0.00014	"	0.167		94	30-130
Benzo(a)anthracene	0.137	0.00041	"	0.167		82	30-130
Anthracene	0.135	0.00033	"	0.167		80.8	30-130
Acenaphthene	0.133	0.0003	"	0.167		79.6	30-130
2-Methylnaphthalene	0.12	0.00039	"	0.167		71.8	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: -
Project: Bonanza - Antelope F-15 West

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 L585419 - 3550B

LCS (LCS-L585419)

Prepared: 11/18/2021 Analyzed: 11/18/2021

Fluoranthene	0.143	0.00039	mg/Kg	0.167		85.6	30-130			
Surrogate: Nitrobenzene-d5	51.3		%	0.333		51.3	29-110			
Surrogate: 4-Terphenyl-d14	76.5		"	0.333		76.5	33-122			
Surrogate: 2-Fluorobiphenyl	63.9		"	0.333		63.9	33-115			

LRB (LRB-L585419)

Prepared: 11/18/2021 Analyzed: 11/18/2021

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	45.9		%	0.333		45.9	29-110			
Surrogate: 4-Terphenyl-d14	72.9		"	0.333		72.9	33-122			
Surrogate: 2-Fluorobiphenyl	58.2		"	0.333		58.2	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: -
Project: Bonanza - Antelope F-15 West

Notes and Definitions

U Sample is Non-Detect.

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.

Jordan A. Merrill, Project Manager



December 21, 2021

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Bonanza - Antelope F-15 West

Project Number - -

Attached are your analytical results for Bonanza - Antelope F-15 West received by Origins Laboratory, Inc. December 13, 2021. This project is associated with Origins project number Y112320-01.

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: -

Project: Bonanza - Antelope F-15 West

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Background-01@5'	Y112320-01	Soil	December 13, 2021 9:45	12/13/2021 16:27

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Merrill, Project Manager

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: -
Project: Bonanza - Antelope F-15 West

Origins Laboratory

Sample Receipt Checklist

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

Origins Work Order: Y112320

Client: Eagle

Client Project ID: Antelope F-15 West

Checklist Completed by: SG

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, 0.9 °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 HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +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

12-18-21
Date/Time Reviewed

Origins Laboratory, Inc.

Jefe Pellegrini

Jen Pellegrini For Jordan A. Merrill, Project Manager

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: -
Project: Bonanza - Antelope F-15 West

Background-01@5'
12/13/2021 9:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y112320-01 (Soil)

Total Metals by 6020B

Arsenic	3.62	0.0855	0.25	mg/Kg	5	L590290	12/15/2021	12/16/2021	
Barium	110	0.042	0.25	"	"	"	"	"	

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Merrill, Project Manager

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Wheat Ridge CO 80033

Martin C Eckert III
Project Number: -
Project: Bonanza - Antelope F-15 West

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: 12/16/2021					
Barium	195	0.042	mg/Kg	4.95	196	NR	75-125	126	80	*
Arsenic	5.72	0.0855	"	2.48	2.67	123	75-125	54.5	80	
MS (L 98228-MS-L590290)		Source: 98228			Prepared: 12/15/2021 Analyzed: 12/16/2021					
Barium	44.4	0.042	mg/Kg	4.74	196	NR	75-125			*
Arsenic	3.27	0.0855	"	2.37	2.67	25	75-125			*
LCS (LCS-L590290)					Prepared: 12/15/2021 Analyzed: 12/16/2021					
Barium	4.82	0.042	mg/Kg	5		96	80-120			
Arsenic	2.46	0.0855	"	2.5		98	80-120			
LRB (LRB-L590290)					Prepared: 12/15/2021 Analyzed: 12/16/2021					
Barium	0.08	0.25	mg/Kg				-			J
Arsenic	ND	0.25	"				-			

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: -
Project: Bonanza - Antelope F-15 West

Notes and Definitions

J Estimated Value. Analyte below reported quantitation limit.

* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



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Jen Pellegrini For Jordan A. Merrill, Project Manager