

Third Party									
Removal Date									
Sample taken?									
PID Readings									
Photo Number(s)									
Other Facility Equipment									
Equipment type	ECD	ECD KO Tank							
Equipment Condition	Good - Per Crew	→							
Age	years	→							
Soil impacts	none	none							
PID Readings	1.2	1.1							
Sample taken?	TB-SS-09	TB-SS-12							
Photo Number(s)	See photo log								
Other observations regarding other facility or third party equipment:									
Summary									
Was impacted soil identified?									
<input checked="" type="radio"/> No Yes - less than 10 cubic yards Yes - more than 10 cubic yards									
Total number of samples field screened:					12				
Total number of samples collected:					12				
Highest PID Reading:					4.1				
Total number of samples submitted to lab for analysis:					8				
If more than 10 cubic yards of impacted soil were observed:									
Vertical extent:					Estimated spill volume:				
Lateral extent:					Volume of soil removed:				
Is additional investigation required?									
Was groundwater encountered during the investigation?									
<input checked="" type="radio"/> No Yes - not impacted or in contact with impacted soils Yes - groundwater impacted and/or in contact with impacted soils									
Measured depth to groundwater:					Was remedial groundwater removal conducted? Yes No				
Date Groundwater was encountered:					Commencement date of removal:				
Sheen on groundwater? Yes No					Volume of groundwater removed prior to sampling:				
Free product observed? Yes No					Volume of groundwater removed post sampling:				
Total number of samples collected:					Total Volume of groundwater removed:				
Total number of samples submitted to lab for analysis:									

Buried or Partially Buried Vessel Closure Checklist

COGCC Rule 911.a.(4) Environmental Site Closure Assessment Field Form

Additional attachments (optional):		Pit Closure		Wellhead Closure		Flowline Closure		Tank Battery Closure
				5-11-22		5-13-22		5-13-22
Site Name & COGCC Facility Number: <i>Antelope 13-17: 420920</i>		Date: <i>5-13-22</i>						Remediation Project #: <i>22760</i>
Associated Wells: <i>4</i>		Age of Site: <i>1 years</i>						Number of Photos Attached: <i>1</i>
Location: (GPS coordinates of vault or southeastern tank berm for multiple) <i>40.398106 -104.353608</i>								Estimated Facility Size (acres):

General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.)

Overall good condition

USCS Soil Type: *SM* Estimated Depth to Groundwater: *720'*

Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)

None observed

Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)

None observed

Buried or Partially Buried Vessels

Tank Contents	<i>Produced Water</i>							
Size (barrels)	<i>60</i>							
Age	<i>years</i>							
Construction	<i>Concrete</i>							
Visual Integrity	<i>Good</i>							
Condition of tank	<i>Good</i>							
PID Readings	<i>—</i>							
Condition of	<i>Good</i>							
PID Readings	<i>1.9</i>	<i>3.2</i>	<i>3.4</i>	<i>2.5</i>	<i>2.1</i>			
Sample taken? Location/Sample ID#	<i>WV-SS-01</i>	<i>WV-SS-02</i>	<i>WV-SS-03</i>	<i>WV-SS-04</i>	<i>WV-FS-01</i>			
Photo Number(s)	<i>See photo log</i>							

Other observations regarding partially buried vessels:

Vault removed prior to assessment

Summary

Was impacted soil identified?		<input checked="" type="radio"/> No	Yes - less than 10 cubic yards	Yes - more than 10 cubic yards
Total number of samples field screened:		<i>5</i>		
Highest PID Reading:		<i>3.4</i>		
Total number of samples collected:		<i>5</i>		
Total number of samples submitted to lab for analysis:		<i>2</i>		
If more than 10 cubic yards of impacted soil were observed:				
Vertical extent:		Estimated spill volume:		
Lateral extent:		Volume of soil removed:		
Is additional investigation required?		<i>N/A</i>		
Was groundwater encountered during the investigation?				
<input checked="" type="radio"/> No		Yes - not impacted or in contact with impacted soils		
Yes - groundwater impacted and/or in contact with impacted soils				
Measured depth to groundwater:		Was remedial groundwater removal conducted?		
		Yes No		
Date Groundwater was encountered:		Commencement date of removal:		
Sheen on groundwater?		Volume of groundwater removed prior to sampling:		
Yes No				
Free product observed?		Volume of groundwater removed post sampling:		
Yes No				
Total number of samples collected:		Total Volume of groundwater removed:		
Total number of samples submitted to lab for analysis:				

Wellhead Closure Checklist

COGCC Rule 911.a.(4) Environmental Site Closure Assessment Field Form

Additional attachments (optional):	Pit Closure —	Tank Battery Closure 5-13-22	Flowline Closure 5-13-22	Partially Buried Vault Closure 5-13-22																																																						
Site Name & COGCC Facility Number: <i>Antelope 13-17 : 120920</i>	Date: <i>5-11-22</i>			Remediation Project #: <i>22760</i>																																																						
Associated Wells: <i>4</i>	Age of Site: <i>years</i>			Number of Photos Attached: <i>4</i>																																																						
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple) <i>40.397800 / -104.353725</i>				Estimated Facility Size (acres):																																																						
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.) <i>Overall good condition</i>																																																										
USCS Soil Type: <i>SM</i>		Estimated Depth to Groundwater: <i>>20'</i>																																																								
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) <i>None observed</i>																																																										
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) <i>None observed</i>																																																										
<table border="1"> <thead> <tr> <th></th> <th>13-17</th> <th>D-17</th> <th>Wellhead(s)</th> <th>12-17</th> <th>H-17</th> </tr> </thead> <tbody> <tr> <td>Well API</td> <td><i>05-123-32748</i></td> <td><i>05-123-34906</i></td> <td></td> <td><i>05-123-33020</i></td> <td><i>05-123-34907</i></td> </tr> <tr> <td>Age</td> <td><i>years</i></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Condition of surface around wellhead</td> <td><i>Good - Per Crew</i></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>PID Readings</td> <td><i>N/A - Excavated upon arrival</i></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Condition of subsurface (retaining vessel)</td> <td><i>Good - no staining, no odor</i></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>PID Readings</td> <td><i>1.6</i></td> <td><i>1.7</i></td> <td></td> <td><i>3.1</i></td> <td><i>1.9</i></td> </tr> <tr> <td>Sample taken? Location/Sample ID#</td> <td><i>WH-FS-01(1)</i></td> <td><i>WH-FS-01(3)</i></td> <td></td> <td><i>WH-FS-01(4)</i></td> <td><i>WH-FS-01(2)</i></td> </tr> <tr> <td>Photo Number(s)</td> <td><i>See photolog</i></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>						13-17	D-17	Wellhead(s)	12-17	H-17	Well API	<i>05-123-32748</i>	<i>05-123-34906</i>		<i>05-123-33020</i>	<i>05-123-34907</i>	Age	<i>years</i>					Condition of surface around wellhead	<i>Good - Per Crew</i>					PID Readings	<i>N/A - Excavated upon arrival</i>					Condition of subsurface (retaining vessel)	<i>Good - no staining, no odor</i>					PID Readings	<i>1.6</i>	<i>1.7</i>		<i>3.1</i>	<i>1.9</i>	Sample taken? Location/Sample ID#	<i>WH-FS-01(1)</i>	<i>WH-FS-01(3)</i>		<i>WH-FS-01(4)</i>	<i>WH-FS-01(2)</i>	Photo Number(s)	<i>See photolog</i>				
	13-17	D-17	Wellhead(s)	12-17	H-17																																																					
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Sample taken? Location/Sample ID#	<i>WH-FS-01(1)</i>	<i>WH-FS-01(3)</i>		<i>WH-FS-01(4)</i>	<i>WH-FS-01(2)</i>																																																					
Photo Number(s)	<i>See photolog</i>																																																									
Other observations regarding wellheads: <i>4 separate excavations. 4 sidewalls + 1 floor sample collected @ each. Floor samples(4) submitted to lab</i>																																																										
Summary																																																										
Was impacted soil identified? <input checked="" type="radio"/> No Yes - less than 10 cubic yards Yes - more than 10 cubic yards																																																										
Total number of samples field screened: <i>20</i>		Total number of samples collected: <i>20</i>																																																								
Highest PID Reading: <i>3.1</i>		Total number of samples submitted to lab for analysis: <i>4</i>																																																								
If more than 10 cubic yards of impacted soil were observed:																																																										
Vertical extent:		Estimated spill volume:																																																								
Lateral extent: <i>N/A</i>		Volume of soil removed:																																																								
Is additional investigation required? <i>N/A</i>																																																										
Was groundwater encountered during the investigation? <input checked="" type="radio"/> No Yes - not impacted or in contact with impacted soils Yes - groundwater impacted and/or in contact with impacted soils																																																										
Measured depth to groundwater:		Was remedial groundwater removal conducted? Yes No																																																								
Date Groundwater was encountered:		Commencement date of removal:																																																								
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Total number of samples collected:		Total Volume of groundwater removed:																																																								
Total number of samples submitted to lab for analysis:																																																										

Flowline Closure Checklist

COGCC Rule 911.a.(4) Environmental Site Closure Assessment Field Form

Additional Attachments:	Tank Battery Closure 5-13-22	Wellhead Closure 5-11-22	Pit Closure —	Partially Buried Vault Closure 5-13-22
Site Name & COGCC Facility Number: <i>Antelope 13-17/3</i>	Date: 5-13-22	Remediation Project #: <i>22760</i>		
Associated Wells: 4	Age of Site: years	Number of Photos Attached: <i>4</i>		
Starting point: (GPS coordinates and descriptions) <i>At Sep: 40.398007 / -104.353887</i>				
End point: (GPS coordinates and descriptions) <i>At Tie-In: 40.397579 / -104.354012</i>				
USCS Soil Type: <i>Sm</i>	Estimated Depth to Groundwater: <i>>20'</i>			
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) <i>None observed</i>				
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) <i>None observed</i>				
Flowlines				
Flowline type	<i>Gas</i>			
Depth	<i>~3.0-3.5'</i>			
Age	<i>years</i>			
Length	<i>250</i>			
Construction Material	<i>Steel</i>			
Were flowlines pulled?	<i>Yes</i>			
Visual Integrity of lines	<i>Good</i>			
Visual impacts if trenched	<i>N/A</i>			
PID Readings if trenched	<i>3.0</i>	<i>1.9</i>	<i>2.2</i>	<i>1.7</i>
Sample taken? Location/Sample ID#	<i>FL-SS-01</i>	<i>FL-SS-02</i>	<i>FL-SS-03</i>	<i>FL-SS-04</i>
Photo Number(s)	<i>See photos</i>			
Other observations regarding on location flowlines:				
Summary				
Was impacted soil identified? <input checked="" type="radio"/> No Yes - less than 10 cubic yards Yes - more than 10 cubic yards				
Total number of samples field screened: <i>4</i>		Total number of samples collected: <i>4</i>		
Highest PID Reading: <i>3.0</i>		Total number of samples submitted to lab for analysis: <i>2</i>		
If more than 10 cubic yards of impacted soil were observed:				
Vertical extent:		Estimated spill volume:		
Lateral extent:		Volume of soil removed:		
Is additional investigation required? <i>N/A</i>				
Was groundwater encountered during the investigation? <input checked="" type="radio"/> No Yes - not impacted or in contact with impacted soils Yes - groundwater impacted and/or in contact with impacted soils				
Measured depth to groundwater:		Was remedial groundwater removal conducted? Yes No		
Date Groundwater was encountered:		Commencement date of removal:		
Seen on groundwater? Yes No		Volume of groundwater removed prior to sampling:		
Free product observed? Yes No		Volume of groundwater removed post sampling:		
Total number of samples collected:		Total Volume of groundwater removed:		
Total number of samples submitted to lab for analysis:				

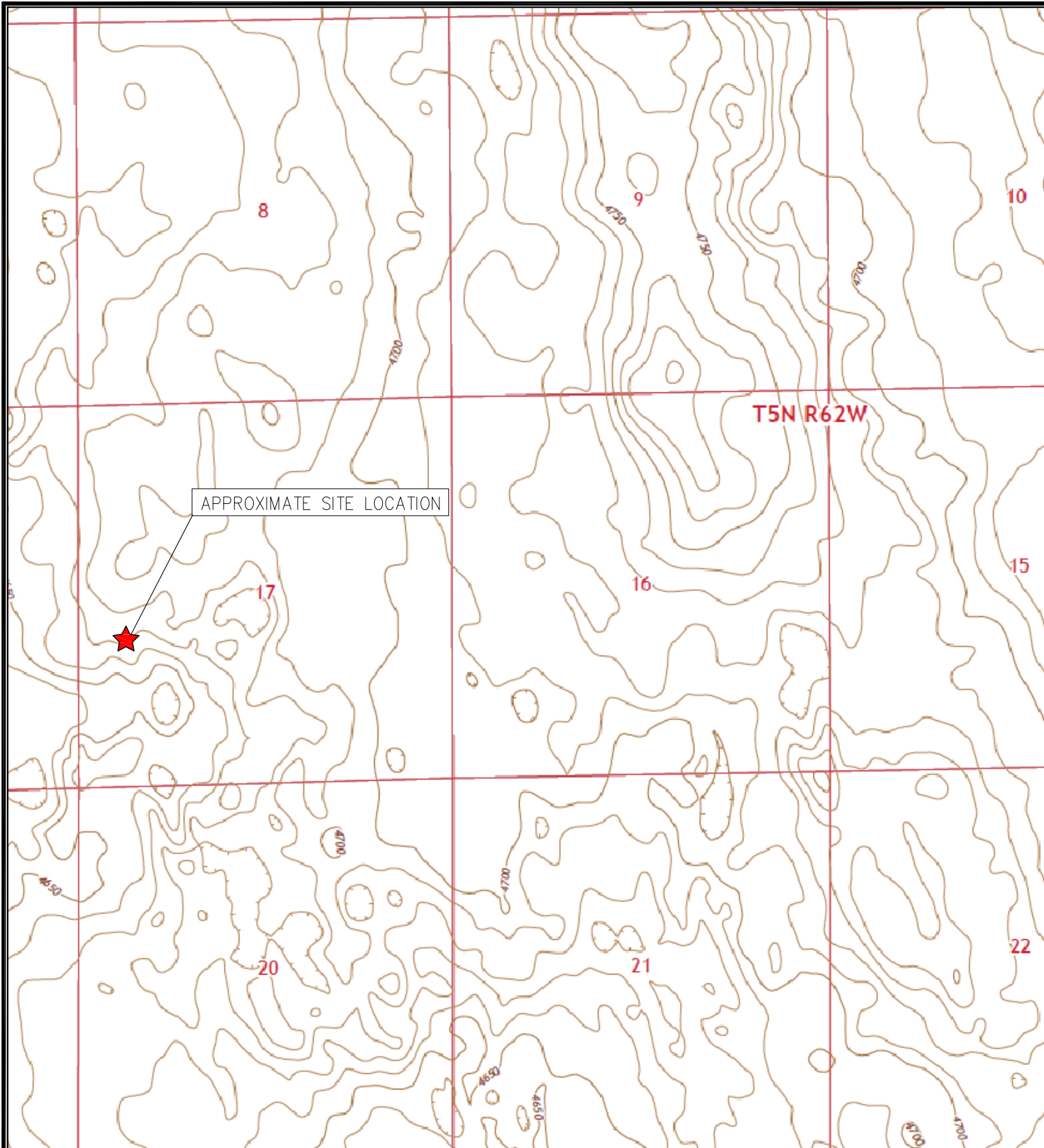


FIGURES

Figure 1: Topographic Site Location Map

Figure 2: Aerial Site Location Map

Figure 3: Soil Sample Location Map



TOPOGRAPHIC SITE LOCATION MAP
ANTELOPE 13-17, H-17, D-17, 12-17
CLOSURE ASSESSMENT
40.397860 / -104.353800
NW¼ SW¼ SEC.17 T5N R62W 6PM
WELD COUNTY, COLORADO
LOCATION ID 420920
REMEDIAION # 22760



EAGLE
ENVIRONMENTAL
CONSULTING, INC.

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

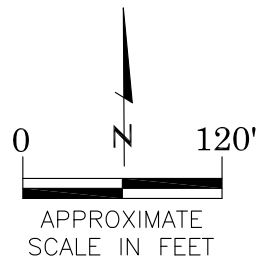
SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP,
POINT OF ROCKS, CO QUADRANGLE 2022

FIGURE 1



LEGEND

- FORMER ANTELOPE WELLHEADS (13-17, H-17, D-17, 12-17) (PLUGGED AND ABANDONED)
- APPROXIMATE TANK BATTERY BOUNDARY
- APPROXIMATE WATER VAULT LOCATION
- APPROXIMATE SEPARATOR LOCATIONS (REMOVED)
- APPROXIMATE FLOWLINE LOCATION (REMOVED)



AERIAL SITE LOCATION MAP
 ANTELOPE 13-17, H-17, D-17, 12-17
 CLOSURE ASSESSMENT
 40.397860 / -104.353800
 NW¼ SW¼ SEC.17 T5N R62W 6PM
 WELD COUNTY, COLORADO
 LOCATION ID 420920
 REMEDIATION # 22760

DATE:

08/31/22

FIG. NO.

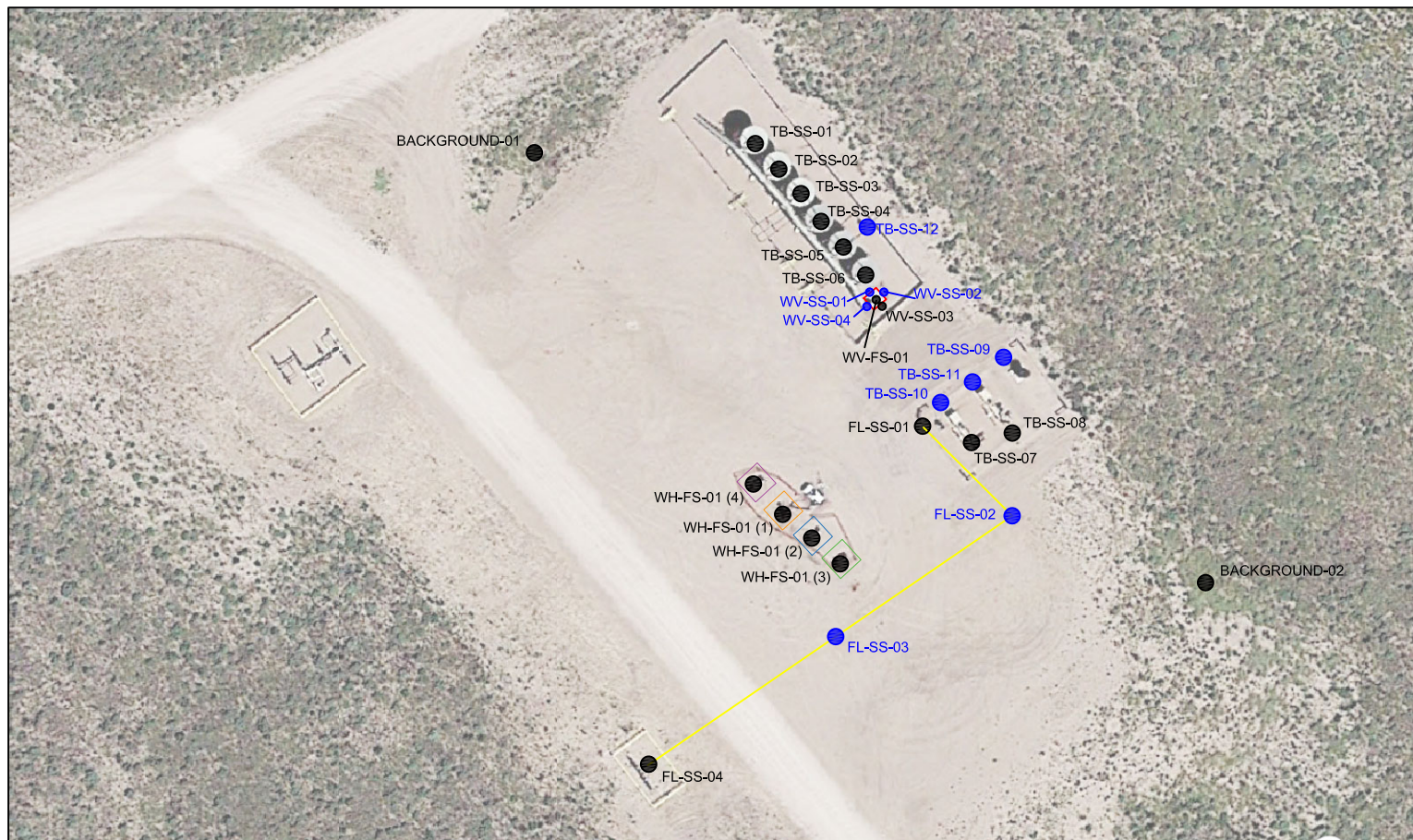
2

DRAWN BY:

KM

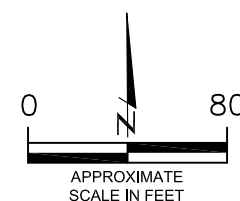


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LEGEND

- BURIED VAULT ASSESSMENT BOUNDARIES
- APPROXIMATE FLOWLINE LOCATION (REMOVED)
- APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED, ONLY, WITH PHOTOIONIZATION DETECTOR
- APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS
- ANTELOPE #13-17 (1) ASSESSMENT BOUNDARIES
- ANTELOPE #H-17 (2) ASSESSMENT BOUNDARIES
- ANTELOPE #D-17 (3) ASSESSMENT BOUNDARIES
- ANTELOPE #12-17 (4) ASSESSMENT BOUNDARIES



SOIL SAMPLE LOCATION MAP
 ANTELOPE 13-17, H-17, D-17, 12-17
 CLOSURE ASSESSMENT
 40.397860 / -104.353800
 NW¼ SW¼ SEC.17 T5N R62W 6PM
 WELD COUNTY, COLORADO
 LOCATION ID 420920
 REMEDIATION # 22760

DATE:
 08/31/22
 DRAWN BY:
 KM
 FIG.
 NO. 3



EAGLE
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 8000 W 44th Ave, Wheat Ridge, CO 80033
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TABLES

Table 1: PID 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 13-17, H-17, D-17, 12-17
CLOSURE ASSESSMENT
40.397860 / -104.353800
NW1/4 SW1/4 SEC.17 T5N R62W 6PM
WELD COUNTY, COLORADO
LOCATION ID 420920
REMEDIATION # 22760

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)	Notes:
WH-SS-01 @ 8' (40.397874 / -104.353797)	05/11/22	8	0.9	N	Antelope #13-17 (1)
WH-SS-02 @ 8' (40.397852 / -104.353800)	05/11/22	8	1.1	N	
WH-SS-03 @ 8' (40.3978580 / -104.353827)	05/11/22	8	1.0	N	
WH-SS-04 @ 8' (40.397872 / -104.353825)	05/11/22	8	0.8	N	
WH-FS-01 (1) @ 9' (40.397861 / -104.353816)	05/11/22	9	1.6	Y	
WH-SS-01 @ 8' (40.397848 / -104.353753)	05/11/22	8	0.5	N	Antelope #H-17 (2)
WH-SS-02 @ 8' (40.397828 / -104.353758)	05/11/22	8	1.1	N	
WH-SS-03 @ 8' (40.397826 / -104.353785)	05/11/22	8	1.3	N	
WH-SS-04 @ 8' (40.397845 / -104.353782)	05/11/22	8	1.0	N	
WH-FS-01 (2) @ 9' (40.397838 / -104.353768)	05/11/22	9	1.9	Y	
WH-SS-01 @ 8' (40.397819 / -104.353714)	05/11/22	8	0.8	N	Antelope #D-17 (3)
WH-SS-02 @ 8' (40.397801 / -104.353716)	05/11/22	8	0.6	N	
WH-SS-03 @ 8' (40.397799 / -104.353742)	05/11/22	8	1.1	N	
WH-SS-04 @ 8' (40.397818 / -104.353737)	05/11/22	8	0.1	N	
WH-FS-01 (3) @ 9' (40.397811 / -104.353728)	05/11/22	9	1.7	Y	
WH-SS-01 @ 8' (40.397905 / -104.353837)	05/11/22	8	1.8	N	Antelope #12-17 (4)
WH-SS-02 @ 8' (40.397886 / -104.353839)	05/11/22	8	2.4	N	
WH-SS-03 @ 8' (40.397884 / -104.353867)	05/11/22	8	2.3	N	
WH-SS-04 @ 8' (40.397904 / -104.353864)	05/11/22	8	2.4	N	
WH-FS-01 (4) @ 9' (40.397894 / -104.353853)	05/11/22	9	3.1	Y	

TABLE 1
PHOTOIONIZATION DETECTOR READING SUMMARY
ANTELOPE 13-17, H-17, D-17, 12-17
CLOSURE ASSESSMENT
40.397860 / -104.353800
NW1/4 SW1/4 SEC.17 T5N R62W 6PM
WELD COUNTY, COLORADO
LOCATION ID 420920
REMEDATION # 22760

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)	Notes:
WV-SS-01 @ 4' (40.398125 / -104.353680)	05/13/22	4	1.9	N	Facility Decomm.
WV-SS-02 @ 4' (40.398124 / -104.353647)	05/13/22	4	3.2	N	
WV-SS-03 @ 4' (40.398100 / -104.353652)	05/13/22	4	3.4	Y	
WV-SS-04 @ 4' (40.398098 / -104.353686)	05/13/22	4	2.5	N	
WV-FS-01 @ 5' (40.398109 / -104.353666)	05/13/22	5	2.1	Y	
TB-SS-01 @ 0-0.25' (40.398290 / -104.353857)	05/13/22	0-0.25	2.3	Y	
TB-SS-02 @ 0-0.25' (40.398258 / -104.353820)	05/13/22	0-0.25	2.6	Y	
TB-SS-03 @ 0-0.25' (40.398229 / -104.353784)	05/13/22	0-0.25	1.8	Y	
TB-SS-04 @ 0-0.25' (40.398202 / -104.353750)	05/13/22	0-0.25	2.9	Y	
TB-SS-05 @ 0-0.25' (40.398173 / -104.353717)	05/13/22	0-0.25	2.2	Y	
TB-SS-06 @ 0-0.25' (40.398141 / -104.353681)	05/13/22	0-0.25	2.6	N	
TB-SS-07 @ 3' (40.397942 / -104.353524)	05/13/22	3	3.8	Y	
TB-SS-08 @ 3' (40.397967 / -104.353475)	05/13/22	3	4.1	Y	
TB-SS-09 @ 0-0.25' (40.398013 / -104.353445)	05/13/22	0-0.25	1.2	N	
TB-SS-10 @ 3' (40.397965 / -104.353546)	05/13/22	3	2.7	N	
TB-SS-11 @ 3' (40.397992 / -104.353501)	05/13/22	3	3.1	N	
TB-SS-12 @ 0-0.25' (40.398189 / -104.353686)	05/13/22	0-0.25	1.1	N	
FL-SS-01 @ 3' (40.397962 / -104.353572)	05/13/22	3	3.0	Y	Antelope 13-17/3 GP Flowline Removal
FL-SS-02 @ 3' (40.397861 / -104.353506)	05/13/22	3	1.9	N	
FL-SS-03 @ 3' (40.397753 - 104.353710)	05/13/22	3	2.2	N	
FL-SS-04 @ 3' (40.397532 / -104.354002)	05/13/22	3	1.7	Y	
Background-01 @ 3-4' (40.398296 / -104.354103)	05/13/22	3-4	2.9	Y	Backgrounds
Background-02 @ 3-4' (40.397766 / -104.353167)	05/13/22	3-4	3.4	Y	
(Y/N) = Yes or No ppm-v = parts per million by volume PID = photoionization detector					

TABLE 2
SOIL ANALYTICAL RESULTS SUMMARY
ANTELOPE 13-17, H-17, D-17, 12-17
CLOSURE ASSESSMENT
40.397860 / -104.353800
NW1/4 SW1/4 SEC.17 T5N R62W 6PM
WELD COUNTY, COLORADO
LOCATION ID 420920
REMEDATION # 22760

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-RRO (mg/kg)	1,2,4-TMB (mg/kg)	1,3,5-TMB (mg/kg)	Boron (mg/L)	Specific Conductance (mmhos/cm)	pH (pH units)	SAR
COGCC Table 915-1 Residential Screening Levels (mg/kg)				1.20	490	5.8	58	500			30	27	2	<4	6-8.3	<6
COGCC Table 915-1 Protection of Groundwater Soil Screening Levels				0.0026	0.69	0.78	9.9	--			0.0081	0.0087	--	--	--	--
WH-FS-01 (1) @ 9' (40.397861 / -104.353816)	05/11/22	9	1.6	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	<0.101	0.221	7.98	1.41
WH-FS-01 (2) @ 9' (40.397838 / -104.353768)	05/11/22	9	1.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	<0.0985	0.276	7.78	3.09
WH-FS-01 (3) @ 9' (40.397811 / -104.353728)	05/11/22	9	1.7	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	<0.100	0.226	7.74	2.62
WH-FS-01 (4) @ 9' 940.397894 / -104.353853)	05/11/22	9	3.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	<0.102	0.215	7.86	1.60
WV-SS-03 @ 4' (40.398100 / -104.353652)	05/13/22	4	3.4	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	<0.0984	0.267	7.54	0.308
WV-FS-01 @ 5' (40.398109 / -104.353666)	05/13/22	5	2.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	<0.101	0.307	7.46	0.291
TB-SS-01 @ 0-0.25' (40.398290 / -104.353857)	05/13/22	0-0.25	2.3	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	<0.0991	0.316	7.69	0.479
TB-SS-02 @ 0-0.25' (40.398258 / -104.353820)	05/13/22	0-0.25	2.6	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	<0.0996	0.245	7.61	0.450
TB-SS-03 @ 0-0.25' (40.398229 / -104.353784)	05/13/22	0-0.25	1.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	<0.100	0.404	7.53	0.478
TB-SS-04 @ 0-0.25' (40.398202 / -104.353750)	05/13/22	0-0.25	2.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	<0.0988	0.237	7.82	0.394
TB-SS-05 @ 0-0.25' (40.398173 / -104.353717)	05/13/22	0-0.25	2.2	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	<0.101	0.312	7.53	0.257
TB-SS-06 @ 0-0.25' (40.398141 / -104.353681)	05/13/22	0-0.25	2.6	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	<0.101	0.183	7.65	0.251
TB-SS-07 @ 3' (40.397942 / -104.353524)	05/13/22	3	3.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	<0.102	0.136	7.15	0.721
TB-SS-08 @ 3' (40.397967 / -104.353475)	05/13/22	3	4.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	<0.100	0.153	7.15	0.762
Background-01 @ 3-4' (40.398296 / -104.354103)	05/13/22	3-4	2.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0973	0.568	8.30	0.256
Background-02 @ 3-4' (40.397766 / -104.353167)	05/13/22	3-4	3.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0994	0.540	8.26	0.246

COGCC = Colorado Oil and Gas Conservation Commission

NA - Not Analyzed

mg/kg = milligrams per kilogram

mmhos/cm = millimhos per centimeter

PID = Photoionization Detector

ppm-v = parts per million by volume

mg/L = milligrams per liter

SAR = Sodium Adsorption Ratio

TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics

TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics

TPH-RRO = Total Petroleum Hydrocarbons - Residual Range Organics

1,2,4-TMB = 1,2,4-Trimethylbenzene

1,3,5-TMB = 1,3,5-Trimethylbenzene

MDL = Minimum Detection Limits

Note: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory MDL and/or reporting limit.

Note: Values presented in **BOLD** contained concentrations exceeding COGCC Table 915-1 Regulatory Limits. Values with asterisk (*) exceed COGCC Table 915-1 protection of groundwater soil screening levels for that compound

TABLE 3
PAH ANALYTICAL RESULTS SUMMARY
ANTELOPE 13-17, H-17, D-17, 12-17
CLOSURE ASSESSMENT
40.397860 / -104.353800
NW1/4 SW1/4 SEC.17 T5N R62W 6PM
WELD COUNTY, COLORADO
LOCATION ID 420920
REMEDATION # 22760

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
WH-FS-01 (1) @ 9' (40.397861 / -104.353816)	05/11/22	9	1.6	<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
WH-FS-01 (2) @ 9' (40.397838 / -104.353768)	05/11/22	9	1.9	<0.00067	<0.00067	0.000544	0.000645	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000582	<0.00067	<0.00067	<0.00067	<0.00067
WH-FS-01 (3) @ 9' (40.397811 / -104.353728)	05/11/22	9	1.7	<0.00067	<0.00067	<0.00067	0.000645	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000718	<0.00067	<0.00067	<0.00067	<0.00067
WH-FS-01 (4) @ 9' 940.397894 / -104.353853)	05/11/22	9	3.1	<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
WV-SS-03 @ 4' (40.398100 / -104.353652)	05/13/22	4	3.4	<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
WV-FS-01 @ 5' (40.398109 / -104.353666)	05/13/22	5	2.1	<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
TB-SS-01 @ 0-0.25' (40.398290 / -104.353857)	05/13/22	0-0.25	2.3	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
TB-SS-02 @ 0-0.25' (40.398258 / -104.353820)	05/13/22	0-0.25	2.6	<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
TB-SS-03 @ 0-0.25' (40.398229 / -104.353784)	05/13/22	0-0.25	1.8	<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
TB-SS-04 @ 0-0.25' (40.398202 / -104.353750)	05/13/22	0-0.25	2.9	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
TB-SS-05 @ 0-0.25' (40.398173 / -104.353717)	05/13/22	0-0.25	2.2	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
TB-SS-06 @ 0-0.25' (40.398141 / -104.353681)	05/13/22	0-0.25	2.6	<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
TB-SS-07 @ 3' (40.397942 / -104.353524)	05/13/22	3	3.8	<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
TB-SS-08 @ 3' (40.397967 / -104.353475)	05/13/22	3	4.1	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
COGCC = Colorado Oil and Gas Conservation Commission PID = Photoionization Detector mg/kg = milligrams per kilogram ppm-v = parts per million by volume Note: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit. Note: Values presented in BOLD contained concentrations exceeding COGCC Table 915-1 Regulatory Limits. Values with asterisk (*) exceed COGCC Table 915-1 protection of groundwater soil screening levels for that compound																		

TABLE 4
METALS ANALYTICAL RESULTS SUMMARY
ANTELOPE 13-17, H-17, D-17, 12-17
CLOSURE ASSESSMENT
40.397860 / -104.353800
NW1/4 SW1/4 SEC.17 T5N R62W 6PM
WELD COUNTY, COLORADO
LOCATION ID 420920
REMEDATION # 22760

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			3.38***	--	--	0.1 to 1**	--	--	--	--	--	--
WH-FS-01 (1) @ 9' (40.397861 / -104.353816)	05/11/22	9	1.56***	42.7	0.0366	<0.244**	2.51	3.27	2.48	0.141	0.0086	12
WH-FS-01 (2) @ 9' (40.397838 / -104.353768)	05/11/22	9	1.42***	34.9	0.0304	<0.25**	2.16	3.54	1.9	<0.25	<0.25	9.31
WH-FS-01 (3) @ 9' (40.397811 / -104.353728)	05/11/22	9	1.49***	38.7	0.0306	<0.253**	1.5	3.07	1.97	0.16	<0.25	9.48
WH-FS-01 (4) @ 9' 940.397894 / -104.353853)	05/11/22	9	1.31***	35.7	0.0344	<0.245**	1.65	2.84	1.9	0.11	<0.25	9.03
WV-SS-03 @ 4' (40.398100 / -104.353652)	05/13/22	4	1.63***	38.2	0.0323	<0.25**	1.72	3.24	2.39	0.192	0.0097	19.1
WV-FS-01 @ 5' (40.398109 / -104.353666)	05/13/22	5	1.9***	38.9	0.0393	<0.244**	1.79	3.28	2.31	0.126	0.0087	13.5
TB-SS-01 @ 0-0.25' (40.398290 / -104.353857)	05/13/22	0-0.25	2.72***	37.8	0.0414	<0.248**	1.72	4.7	2.18	0.16	0.008	10.9
TB-SS-02 @ 0-0.25' (40.398258 / -104.353820)	05/13/22	0-0.25	1.41***	25.2	0.034	<0.244**	1.52	2.53	1.9	0.146	0.0083	9.98
TB-SS-03 @ 0-0.25' (40.398229 / -104.353784)	05/13/22	0-0.25	1.77***	31	0.0415	<0.251**	1.91	2.95	2.29	0.163	0.0086	12.1
TB-SS-04 @ 0-0.25' (40.398202 / -104.353750)	05/13/22	0-0.25	1.39***	28.6	0.0427	<0.251**	1.61	2.28	2.71	0.145	0.0074	10.7
TB-SS-05 @ 0-0.25' (40.398173 / -104.353717)	05/13/22	0-0.25	1.59***	38.5	0.0392	<0.244**	1.56	2.89	2.29	0.123	0.0102	12.3
TB-SS-06 @ 0-0.25' (40.398141 / -104.353681)	05/13/22	0-0.25	1.44***	40.6	0.0322	<0.244**	1.44	3.92	1.93	0.11	0.0067	9.6
TB-SS-07 @ 3' (40.397942 / -104.353524)	05/13/22	3	2.32***	31	0.041	<0.245**	1.72	2.92	2.31	0.128	<0.25	10.7
TB-SS-08 @ 3' (40.397967 / -104.353475)	05/13/22	3	1.67***	45.7	0.0435	<0.247**	2.19	3.7	2.59	0.162	0.0088	12.3
Background-01 @ 3-4' (40.398296 / -104.354103)	05/13/22	3-4	2.31***	32.7	0.0646	<0.488**	2.56	3.5	2.82	0.2	0.009	15.7
Background-02 @ 3-4' (40.397766 / -104.353167)	05/13/22	3-4	3.09***	41.9	0.0562	<0.244**	2.38	5.3	2.54	0.151	0.0083	13.3
COGCC = Colorado Oil and Gas Conservation Commission mg/kg = milligrams per kilogram Notes: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit or minimum detection levels. Values presented in BOLD contained concentrations exceeding applicable COGCC Table 915-1 Regulatory Limits Values presented with asterisk (*) contained concentrations exceeding COGCC Table 915-1 Protection of Groundwater Soil Screening Levels **Achievable practical quantitative limits for Hexavalent Chromium in soils is in the range of 0.1 to 1 mg/kg. ***Local clean-up level (3.38 mg/kg) is 1.25*Background average (2.7 mg/kg)												



ATTACHMENT A

Photo Log

Antelope 13-17, H-17, D-17, 12-17
Location ID 420920
Remediation # 22760

Closure Assessment

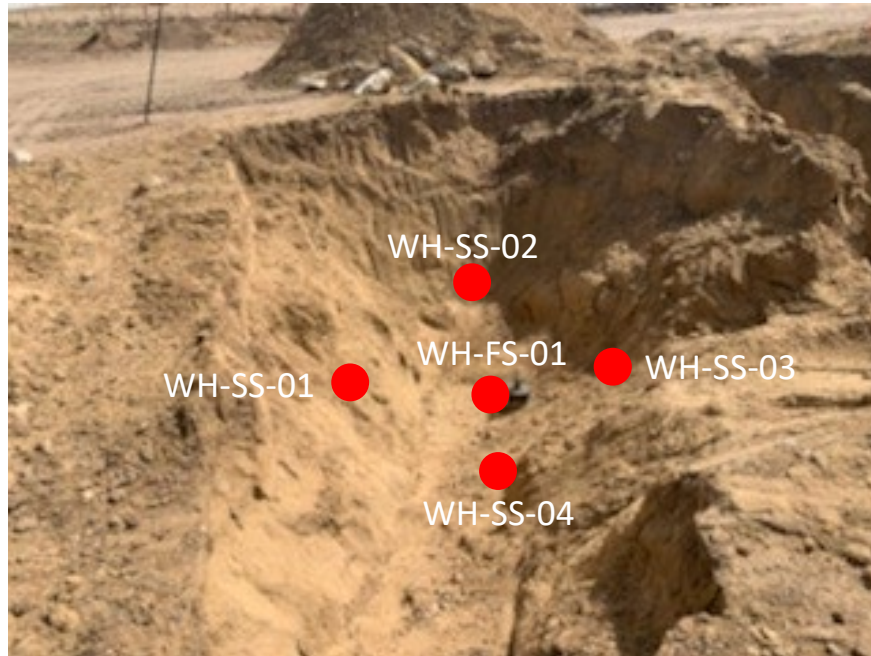
May 2022



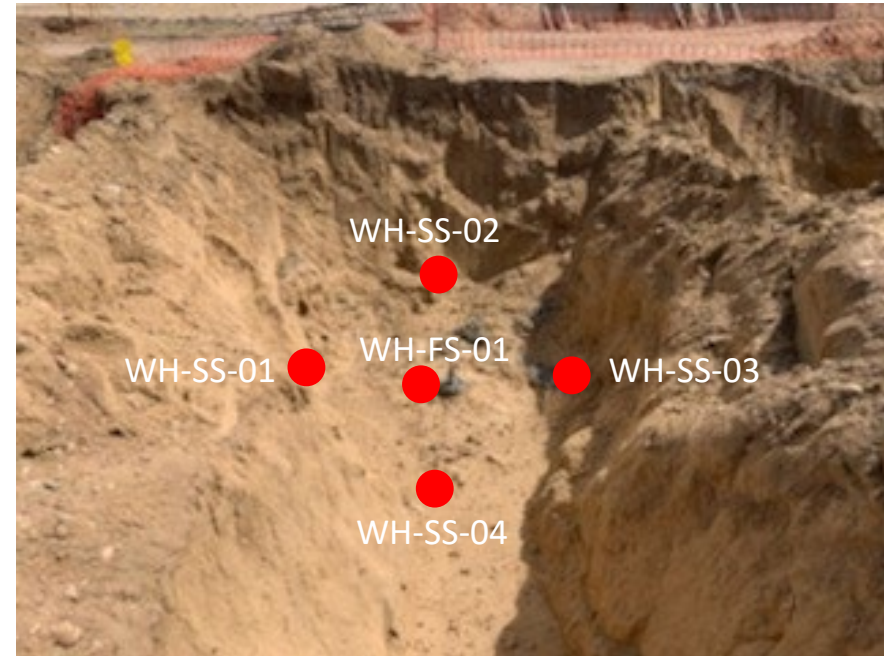
EAGLE
ENVIRONMENTAL
CONSULTING, INC.
8000 W 44th Ave, Wheat Ridge, CO 80033
Ph: 303-433-0479 • F: 303-325-5449



Wellhead Decommissioning Assessment – 05/11/22

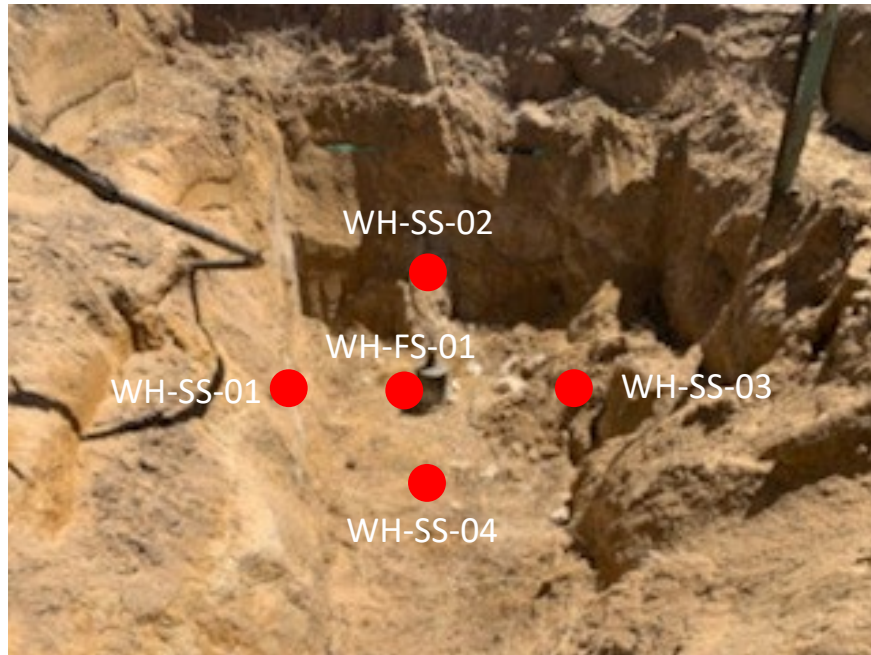


Looking northeast
Antelope 12-17 wellhead excavation
No petroleum hydrocarbon staining or odor observed
Samples collected:
WH-SS-01@8' – 1.8 ppm-v
WH-SS-02@8' – 2.4 ppm-v
WH-SS-03@8' – 2.3 ppm-v
WH-SS-04@8' – 2.4 ppm-v
WH-FS-01@9' – 3.1 ppm-v

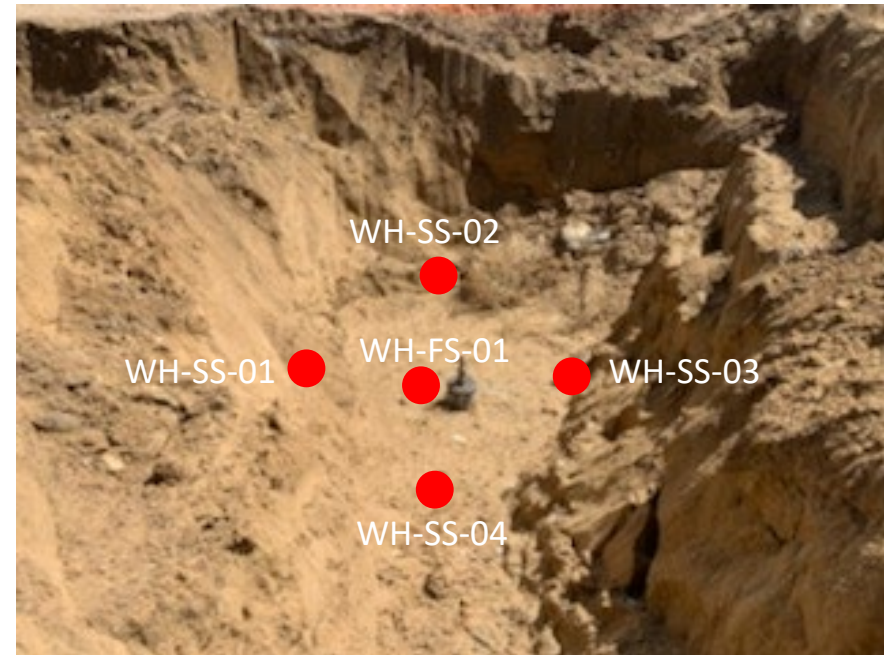


Looking northeast
Antelope 13-17 wellhead excavation
No petroleum hydrocarbon staining or odor observed
Samples collected:
WH-SS-01@8' – 0.9 ppm-v
WH-SS-02@8' – 1.1 ppm-v
WH-SS-03@8' – 1.0 ppm-v
WH-SS-04@8' – 0.8 ppm-v
WH-FS-01@9' – 1.6 ppm-v

Wellhead Decommissioning Assessment – 05/11/22

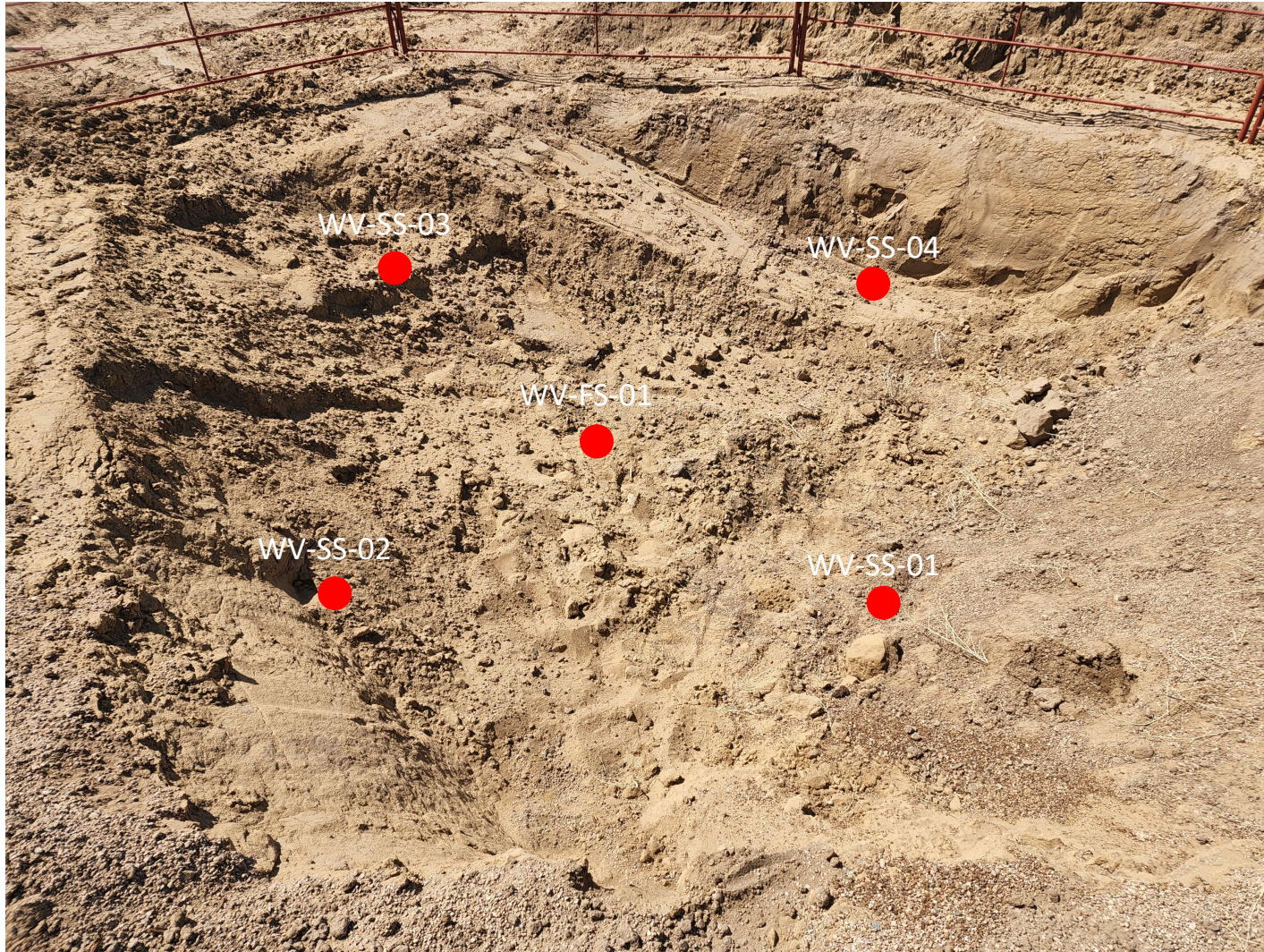


Looking northeast
Antelope H-17 wellhead excavation
No petroleum hydrocarbon staining or odor observed
Samples collected:
WH-SS-01@8' – 0.5 ppm-v
WH-SS-02@8' – 1.1 ppm-v
WH-SS-03@8' – 1.3 ppm-v
WH-SS-04@8' – 1.0 ppm-v
WH-FS-01@9' – 1.9 ppm-v



Looking northeast
Antelope D-17 Wellhead excavation
No petroleum hydrocarbon staining or odor observed
Samples collected:
WH-SS-01@8' – 0.8 ppm-v
WH-SS-02@8' – 0.6 ppm-v
WH-SS-03@8' – 1.1 ppm-v
WH-SS-04@8' – 0.1 ppm-v
WH-FS-01@9' – 1.7 ppm-v

Buried Vault Decommissioning Assessment – 05/13/22



Looking south

Water vault excavation

No petroleum hydrocarbon staining or odor observed

Samples collected:

WV-SS-01@4' – 1.9 ppm-v

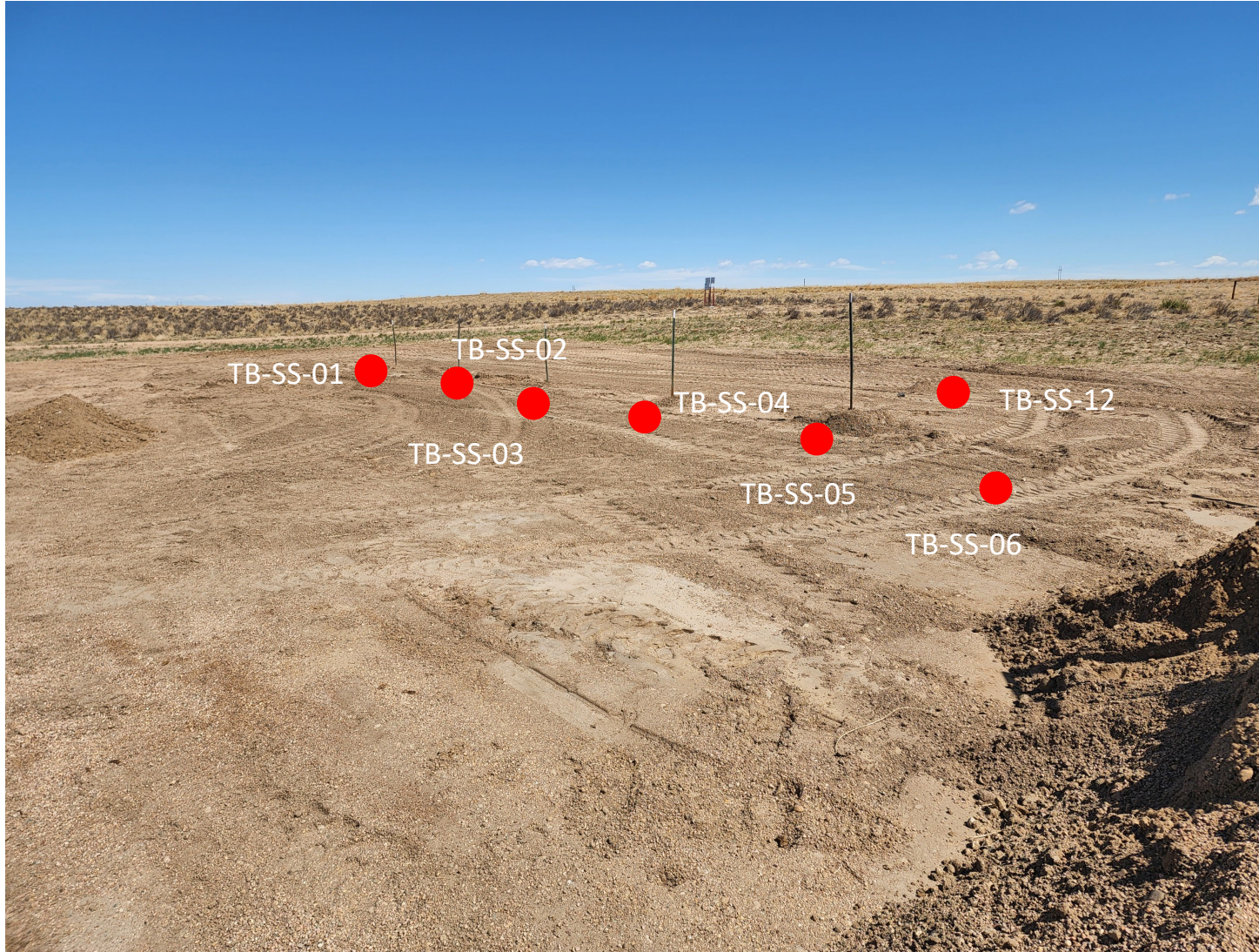
WV-SS-02@4' – 3.2 ppm-v

WV-SS-03@4' – 3.4 ppm-v

WV-SS-04@4' – 2.5 ppm-v

WV-FS-01@5' – 2.1 ppm-v

Battery Decommissioning Assessment / Sampling – 05/13/22



Looking north

Former AST locations (6)

No petroleum hydrocarbon staining or odor observed

Samples collected:

TB-SS-01@0-0.25' – 2.3 ppm-v

TB-SS-02@0-0.25' – 2.6 ppm-v

TB-SS-03@0-0.25' – 1.8 ppm-v

TB-SS-04@0-0.25' – 2.9 ppm-v

TB-SS-05@0-0.25' – 2.2 ppm-v

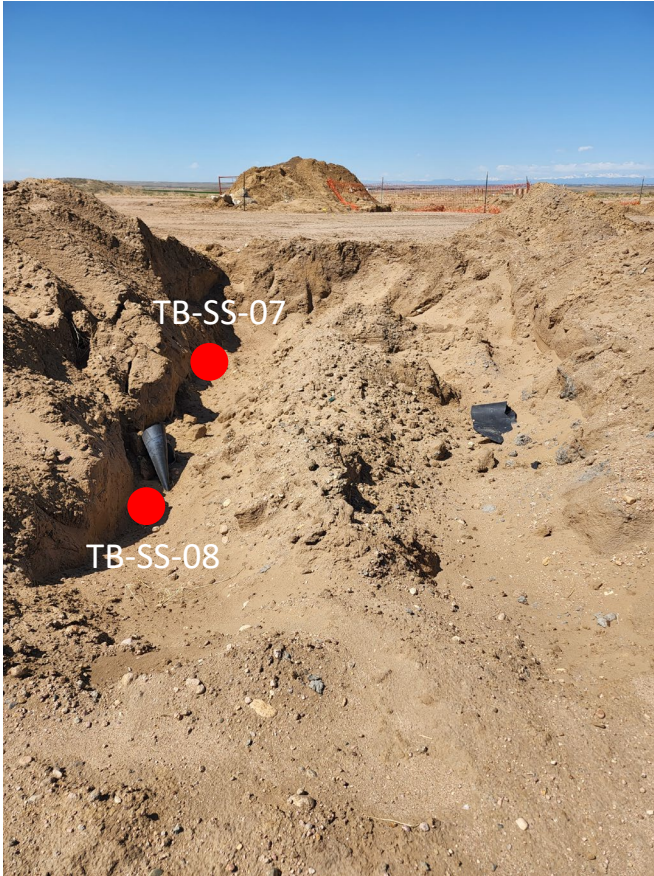
TB-SS-06@0-0.25' – 2.6 ppm-v

Former ECD KO Tank

Sample collected:

TB-SS-12@0-0.25' – 1.1 ppm-v

Battery Decommissioning Assessment – 05/13/22



Looking southwest
Separator to flowline connections
No petroleum hydrocarbon staining or odor observed
Samples collected:
TB-SS-07@3' – 3.8 ppm-v
TB-SS-08@3' – 4.1 ppm-v



Looking southwest
Separator to dumpline connections
No petroleum hydrocarbon staining or odor observed
Samples collected:
TB-SS-10@3' – 2.7 ppm-v
TB-SS-11@3' – 3.1 ppm-v



Looking northwest
Former ECD location
No petroleum hydrocarbon staining or odor observed
Samples collected:
TB-SS-09@0-0.25' – 1.2 ppm-v

Flowline Decommissioning Assessment – 05/13/22



← Looking east

Flowline start

No petroleum hydrocarbon staining or odor observed

Samples collected:

FL-SS-01@3' – 3.0 ppm-v

Looking southwest→

Flowline cut point/change of direction

No petroleum hydrocarbon staining or odor observed

Samples collected:

FL-SS-02@3' – 1.9 ppm-v



Flowline Decommissioning Assessment – 05/13/22



← Looking southwest

Flowline cut point

No petroleum hydrocarbon staining or odor observed

Samples collected:

FL-SS-03@3' – 2.2 ppm-v



Looking southeast→

Flowline cut point at pigging station

No petroleum hydrocarbon staining or odor observed

Samples collected:

FL-SS-04@3' – 1.7 ppm-v



ATTACHMENT B

Laboratory Analytical Reports



May 24, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Bonanza - Antelope #D-17

Project Number - [none]

Attached are your analytical results for Bonanza - Antelope #D-17 received by Origins Laboratory, Inc. May 11, 2022. This project is associated with Origins project number Y205287-01.

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 #D-17

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@9'	Y205287-01	Soil	May 11, 2022 11:08	05/11/2022 14:54

Chain of Custody Modification Request

On 5/12/2022, Andrew Newberry from Eagle Environmental contacted Jordan Bynon via email regarding Y205287 requesting that Table 915 Metals be added to the analysis.

Requested modifications to the chain of custody were made by Jordan Bynon on 5/12/2022.

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope #D-17

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

Sample Receipt Checklist

Origins Work Order: Y205287 Client: Eagle
Client Project ID: Antelope D-17

Checklist Completed by: SG Shipped Via: HD
Date/time completed: 5/12/22 (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: 1125 °C °C °C (Describe) °C

Thermometer ID: T004

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 (Project Manager) MP

Date/Time Reviewed 5/13/22

Origins Laboratory, Inc.

Jefe Pellegrini

Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope #D-17

WH-FS-01@9'

5/11/2022 11:08:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205287-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B2E1304	05/13/2022	05/16/2022	U
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E1317	05/13/2022	05/16/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	64.1 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E1212	05/12/2022	05/12/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130	"	"	"
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope #D-17

WH-FS-01@9'

5/11/2022 11:08:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205287-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	99.3 %	70-130	B2E12 12	05/12/2022	05/12/2022
Surrogate: 4-Bromofluorobenzene	95.5 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	05/13/2022	05/16/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	1.18	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L617064	05/19/2022	05/23/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	0.000645	0.000334	0.00067	"	"	"	"	" J
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	0.000718	0.000394	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 #D-17

WH-FS-01@9'

5/11/2022 11:08:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y205287-01 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L617064	05/19/2022	05/23/2022
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	70 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	92.1 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	57.3 %	29-110	"	"	"

pH in Soil by 9045D

pH	7.74	pH Units	1	B2E1303	05/13/2022	05/14/2022
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SAR by 20B Saturated Paste

SAR	2.62	SAR	1	B2E1302	05/13/2022	05/16/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.226	0.00500	mmhos/cm	1	B2E1303	05/13/2022	05/14/2022
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Total Metals by 6020B

Arsenic	1.49	0.0855	0.25	mg/Kg	5	L616412	05/16/2022	05/21/2022
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope #D-17

WH-FS-01@9'

5/11/2022 11:08:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y205287-01 (Soil)

Total Metals by 6020B

Barium	38.7	0.042	0.25	mg/Kg	5	L616412	05/16/2022	05/21/2022	
Cadmium	0.0306	0.0259	0.25	"	"	"	"	"	J
Copper	1.5	0.0806	0.25	"	"	"	"	"	
Lead	3.07	0.031	0.25	"	"	"	"	"	
Nickel	1.97	0.0633	0.25	"	"	"	"	"	
Selenium	0.16	0.103	0.25	"	"	"	"	"	J
Silver	ND	0.0067	0.25	"	"	"	"	"	
Zinc	9.48	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.253	0.519	mg/Kg	1	L617342	05/11/2022	05/20/2022	
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Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope #D-17

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 B2E1212 - EPA 5030 (soil)										
Blank (B2E1212-BLK1)					Prepared: 05/12/2022 Analyzed: 05/12/2022					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.0100	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	103		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	104		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	92.3		70-130			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope #D-17

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 B2E1212 - EPA 5030 (soil)

LCS (B2E1212-BS1)

Prepared: 05/12/2022 Analyzed: 05/12/2022

1,2,4-Trimethylbenzene	0.0948	0.00200	mg/kg	0.100		94.8	70-130			
1,3,5-Trimethylbenzene	0.0954	0.00200	"	0.100		95.4	70-130			
Benzene	0.0960	0.00200	"	0.100		96.0	70-130			
Ethylbenzene	0.0990	0.00200	"	0.100		99.0	70-130			
Naphthalene	0.0952	0.0100	"	0.100		95.2	70-130			
Toluene	0.103	0.00200	"	0.100		103	70-130			
o-Xylene	0.0962	0.00200	"	0.100		96.2	70-130			
m,p-Xylene	0.201	0.00400	"	0.200		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	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 #D-17

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 B2E1212 - EPA 5030 (soil)

Matrix Spike (B2E1212-MS1)		Source: Y205311-01			Prepared: 05/12/2022 Analyzed: 05/12/2022					
1,2,4-Trimethylbenzene	0.105	0.00200	mg/kg	0.100	ND	105	70-130			
1,3,5-Trimethylbenzene	0.106	0.00200	"	0.100	ND	106	70-130			
Benzene	0.101	0.00200	"	0.100	ND	101	70-130			
Ethylbenzene	0.108	0.00200	"	0.100	ND	108	70-130			
Naphthalene	0.104	0.0100	"	0.100	ND	104	70-130			
Toluene	0.107	0.00200	"	0.100	ND	107	70-130			
o-Xylene	0.106	0.00200	"	0.100	ND	106	70-130			
m,p-Xylene	0.220	0.00400	"	0.200	ND	110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope #D-17

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 B2E1212 - EPA 5030 (soil)										
Matrix Spike Dup (B2E1212-MSD1)		Source: Y205311-01			Prepared: 05/12/2022 Analyzed: 05/12/2022					
1,2,4-Trimethylbenzene	0.102	0.00200	mg/kg	0.100	ND	102	70-130	2.60	20	
1,3,5-Trimethylbenzene	0.103	0.00200	"	0.100	ND	103	70-130	3.23	20	
Benzene	0.0998	0.00200	"	0.100	ND	99.8	70-130	0.778	20	
Ethylbenzene	0.106	0.00200	"	0.100	ND	106	70-130	1.74	20	
Naphthalene	0.102	0.0100	"	0.100	ND	102	70-130	2.05	20	
Toluene	0.105	0.00200	"	0.100	ND	105	70-130	1.64	20	
o-Xylene	0.104	0.00200	"	0.100	ND	104	70-130	1.61	20	
m,p-Xylene	0.218	0.00400	"	0.200	ND	109	70-130	1.08	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope #D-17

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 B2E1317 - EPA 3550B										
Blank (B2E1317-BLK1)					Prepared: 05/13/2022 Analyzed: 05/16/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	16		"	24.9		64.6	50-150			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope #D-17

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 B2E1317 - EPA 3550B

LCS (B2E1317-BS1)

Prepared: 05/13/2022 Analyzed: 05/16/2022

Diesel (C10-C28)	1000	50.0	mg/kg	1000		100	70-130			
Residual Range Organics (C28-C40)	833	200	"	1000		83.3	70-130			
Surrogate: o-Terphenyl	33		"	49.8		65.4	50-150			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope #D-17

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 B2E1317 - EPA 3550B

Matrix Spike (B2E1317-MS1)		Source: Y205281-01			Prepared: 05/13/2022 Analyzed: 05/16/2022					
Diesel (C10-C28)	1070	50.0	mg/kg	1000	ND	107	70-130			
Residual Range Organics (C28-C40)	920	200	"	1000	ND	92.0	70-130			
Surrogate: o-Terphenyl	33		"	49.8		66.6	50-150			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope #D-17

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 B2E1317 - EPA 3550B

Matrix Spike Dup (B2E1317-MSD1)		Source: Y205281-01			Prepared: 05/13/2022 Analyzed: 05/16/2022					
Diesel (C10-C28)	1080	50.0	mg/kg	1000	ND	108	70-130	0.871	35	
Residual Range Organics (C28-C40)	882	200	"	1000	ND	88.2	70-130	4.20	35	
Surrogate: o-Terphenyl	33		"	49.8		65.7	50-150			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope #D-17

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 B2E1304 - Default Prep Metals

Blank (B2E1304-BLK1)

Prepared: 05/13/2022 Analyzed: 05/16/2022

Boron	ND	0.100	mg/L							U
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Duplicate (B2E1304-DUP1)

Source: Y205281-01

Prepared: 05/13/2022 Analyzed: 05/16/2022

Boron	0.0201	0.101	mg/L		0.0203			0.707	50	U
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Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope #D-17

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2E1303 - NO PREP										
Blank (B2E1303-BLK1)					Prepared: 05/13/2022 Analyzed: 05/14/2022					
pH	0.00		pH Units							U
Specific Conductance (EC)	ND	0.0300	mmhos/cm							U
Duplicate (B2E1303-DUP1)					Source: Y205274-14 Prepared: 05/13/2022 Analyzed: 05/14/2022					
Specific Conductance (EC)	0.267	0.0300	mmhos/cm		0.264			1.24	25	
pH	8.29		pH Units		8.38			1.08	25	

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope #D-17

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 L617064 - 3550B

MSD (L 91974-MSD-L617064)		Source: 91974			Prepared: 05/19/2022 Analyzed: 05/23/2022					
Acenaphthene	0.106	0.000304	mg/Kg	0.166	<0.000304	63.8	30-130	2.8	30	
1-Methylnaphthalene	0.0903	0.000364	"	0.166	<0.000364	54.3	30-130	3.8	30	
Benzo(a)anthracene	0.0996	0.000493	"	0.166	<0.000493	60	30-130	6.2	30	
Anthracene	0.115	0.000334	"	0.166	<0.000334	69.2	30-130	0.8	30	
Pyrene	0.123	0.000643	"	0.166	<0.000643	74	30-130	1.6	30	
Naphthalene	0.0878	0.000484	"	0.166	<0.000484	52.8	30-130	3.1	30	
Benzo(k)fluoranthene	0.0896	0.000437	"	0.166	<0.000437	53.9	30-130	0.4	30	
2-Methylnaphthalene	0.0907	0.000645	"	0.166	<0.000645	54.6	30-130	3.3	30	
Indeno(1,2,3-cd)pyrene	0.124	0.000627	"	0.166	<0.000627	74.6	30-130	1.6	30	
Benzo(b)fluoranthene	0.0838	0.000585	"	0.166	<0.000585	50.4	30-130	2.7	30	
Chrysene	0.0992	0.000624	"	0.166	<0.000624	59.7	30-130	4.8	30	
Dibenz(a,h)anthracene	0.12	0.000614	"	0.166	<0.000614	72.2	30-130	3.3	30	
Benzo(a)pyrene	0.103	0.000468	"	0.166	0.000873	61.5	30-130	0.9	30	
Fluoranthene	0.124	0.000394	"	0.166	<0.000394	74.6	30-130	0	30	
Fluorene	0.102	0.000286	"	0.166	<0.000286	61.4	30-130	2.1	30	
Surrogate: 2-Fluorobiphenyl	61.7		"	0.332	202	61.7	33-115			
Surrogate: 4-Terphenyl-d14	84.9		"	0.332	263	84.9	33-122			
Surrogate: Nitrobenzene-d5	54.8		"	0.332	181	54.8	29-110			

MS (L 91974-MS-L617064)		Source: 91974			Prepared: 05/19/2022 Analyzed: 05/23/2022					
Fluoranthene	0.124	0.000394	mg/Kg	0.163	<0.000394	76	30-130			
2-Methylnaphthalene	0.0877	0.000645	"	0.163	<0.000645	53.8	30-130			
Benzo(a)pyrene	0.102	0.000468	"	0.163	0.000873	62	30-130			
Chrysene	0.0945	0.000624	"	0.163	<0.000624	57.9	30-130			
Benzo(k)fluoranthene	0.0892	0.000437	"	0.163	<0.000437	54.7	30-130			
Benzo(b)fluoranthene	0.0815	0.000585	"	0.163	<0.000585	50	30-130			
Dibenz(a,h)anthracene	0.116	0.000614	"	0.163	<0.000614	71.1	30-130			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope #D-17

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 L617064 - 3550B

MS (L 91974-MS-L617064)		Source: 91974			Prepared: 05/19/2022 Analyzed: 05/23/2022					
Benzo(a)anthracene	0.106	0.000493	mg/Kg	0.163	<0.000493	65	30-130			
Anthracene	0.114	0.000334	"	0.163	<0.000334	69.9	30-130			
1-Methylnaphthalene	0.0869	0.000364	"	0.163	<0.000364	53.3	30-130			
Indeno(1,2,3-cd)pyrene	0.122	0.000627	"	0.163	<0.000627	74.8	30-130			
Naphthalene	0.0851	0.000484	"	0.163	<0.000484	52.2	30-130			
Acenaphthene	0.103	0.000304	"	0.163	<0.000304	63.1	30-130			
Pyrene	0.121	0.000643	"	0.163	<0.000643	74.2	30-130			
Fluorene	0.0998	0.000286	"	0.163	<0.000286	61.2	30-130			
Surrogate: 4-Terphenyl-d14	79.2		"	0.327	263	79.2	33-122			
Surrogate: 2-Fluorobiphenyl	56.8		"	0.327	202	56.8	33-115			
Surrogate: Nitrobenzene-d5	48		"	0.327	181	48	29-110			

LCS (LCS-L617064)		Prepared: 05/19/2022 Analyzed: 05/23/2022								
Benzo(a)anthracene	0.102	0.000493	mg/Kg	0.167		61	30-130			
Indeno(1,2,3-cd)pyrene	0.0988	0.000627	"	0.167		59.1	30-130			
Fluoranthene	0.12	0.000394	"	0.167		71.8	30-130			
Dibenz(a,h)anthracene	0.106	0.000614	"	0.167		63.4	30-130			
Chrysene	0.0928	0.000624	"	0.167		55.5	30-130			
Benzo(k)fluoranthene	0.0858	0.000437	"	0.167		51.3	30-130			
1-Methylnaphthalene	0.0929	0.000364	"	0.167		55.6	30-130			
Benzo(a)pyrene	0.0986	0.000468	"	0.167		59	30-130			
Naphthalene	0.0887	0.000484	"	0.167		53.1	30-130			
Anthracene	0.115	0.000334	"	0.167		68.8	30-130			
Acenaphthene	0.107	0.000304	"	0.167		64	30-130			
2-Methylnaphthalene	0.0931	0.000645	"	0.167		55.7	30-130			
Benzo(b)fluoranthene	0.0813	0.000585	"	0.167		48.6	30-130			
Pyrene	0.118	0.000643	"	0.167		70.6	30-130			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope #D-17

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 L617064 - 3550B

LCS (LCS-L617064)

Prepared: 05/19/2022 Analyzed: 05/23/2022

Fluorene	0.103	0.000286	mg/Kg	0.167		61.6	30-130			
Surrogate: 4-Terphenyl-d14	85.5		"	0.333		85.5	33-122			
Surrogate: 2-Fluorobiphenyl	69.9		"	0.333		69.9	33-115			
Surrogate: Nitrobenzene-d5	55.2		"	0.333		55.2	29-110			

LRB (LRB-L617064)

Prepared: 05/19/2022 Analyzed: 05/23/2022

Benzo(a)pyrene	ND	0.00067	mg/Kg				-			
Naphthalene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	51.6		"	0.333		51.6	29-110			
Surrogate: 4-Terphenyl-d14	78.3		"	0.333		78.3	33-122			
Surrogate: 2-Fluorobiphenyl	57.6		"	0.333		57.6	33-115			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope #D-17

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 L616412 - 3050B										
MSD (L 92000-MSD-L616412)			Source: Y205287-01			Prepared: 05/16/2022 Analyzed: 05/21/2022				
Copper	3.79	0.0806	mg/Kg	2.33	1.5	98	75-125	1.5	80	
Barium	69.4	0.042	"	4.66	38.7	659	75-125	48.7	80	*
Arsenic	3.52	0.0855	"	2.33	1.49	87	75-125	4.4	80	
Cadmium	0.487	0.0259	"	0.466	0.0306	98	75-125	0.4	80	
Lead	5.19	0.031	"	2.33	3.07	91	75-125	4.3	80	
Nickel	4.35	0.0633	"	2.33	1.97	102	75-125	2.7	80	
Selenium	4.17	0.103	"	4.66	0.16	86	75-125	1.1	80	
Silver	0.436	0.0067	"	0.466	<0.0067	94	75-125	3.1	80	
Zinc	32.3	0.534	"	23.3	9.48	98	75-125	1.8	80	
MS (L 92000-MS-L616412)			Source: Y205287-01			Prepared: 05/16/2022 Analyzed: 05/21/2022				
Barium	42.2	0.042	mg/Kg	4.76	38.7	74	75-125			*
Zinc	32.9	0.534	"	23.8	9.48	98	75-125			
Silver	0.45	0.0067	"	0.476	<0.0067	95	75-125			
Selenium	4.22	0.103	"	4.76	0.16	85	75-125			
Nickel	4.23	0.0633	"	2.38	1.97	95	75-125			
Lead	4.97	0.031	"	2.38	3.07	80	75-125			
Cadmium	0.485	0.0259	"	0.476	0.0306	95	75-125			
Arsenic	3.68	0.0855	"	2.38	1.49	92	75-125			
Copper	3.73	0.0806	"	2.38	1.5	94	75-125			
LCS (LCS-L616412)			Prepared: 05/16/2022 Analyzed: 05/21/2022							
Lead	2.36	0.031	mg/Kg	2.5		94	80-120			
Arsenic	2.36	0.0855	"	2.5		94	80-120			
Silver	0.487	0.0067	"	0.5		97	80-120			
Selenium	4.64	0.103	"	5		93	80-120			
Zinc	24.2	0.534	"	25		97	80-120			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope #D-17

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 L616412 - 3050B										
LCS (LCS-L616412)					Prepared: 05/16/2022 Analyzed: 05/21/2022					
Nickel	2.39	0.0633	mg/Kg	2.5		96	80-120			
Cadmium	0.467	0.0259	"	0.5		93	80-120			
Barium	5.12	0.042	"	5		102	80-120			
Copper	2.33	0.0806	"	2.5		93	80-120			
LRB (LRB-L616412)					Prepared: 05/16/2022 Analyzed: 05/21/2022					
Barium	0.0442	0.25	mg/Kg				-			J
Zinc	ND	2.5	"				-			
Silver	ND	0.25	"				-			
Selenium	ND	0.25	"				-			
Nickel	ND	0.25	"				-			
Lead	ND	0.25	"				-			
Cadmium	ND	0.25	"				-			
Arsenic	ND	0.25	"				-			
Copper	ND	0.25	"				-			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope #D-17

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 L617342 -										
DUP (L 91999-DUP)	Source: 91999				Prepared: Analyzed: 05/20/2022					
Chromium, Hexavalent	ND	0.249	mg/Kg		<0.512	-		0	20	
MS (L 91999-MS)	Source: 91999				Prepared: Analyzed: 05/20/2022					
Chromium, Hexavalent	0.505	0.244	mg/Kg	7.81	<0.244	6	75-125			*
LCS (LCS)					Prepared: Analyzed: 05/20/2022					
Chromium, Hexavalent	6.25	0.244	mg/Kg	8		78	75-125			
LRB (LRB)					Prepared: Analyzed: 05/20/2022					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Martin C Eckert III

Project Number: [none]

Project: Bonanza - Antelope #D-17

Notes and Definitions

U Sample is Non-Detect.

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.

Jen Pellegrini For Noelle Doyle Mathis, President



May 24, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Bonanza - Antelope #H-17

Project Number - [none]

Attached are your analytical results for Bonanza - Antelope #H-17 received by Origins Laboratory, Inc. May 11, 2022. This project is associated with Origins project number Y205288-01.

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 #H-17

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@9'	Y205288-01	Soil	May 11, 2022 10:48	05/11/2022 14:34

Chain of Custody Modification Request

On 5/12/2022, Andrew Newberry from Eagle Environmental contacted Jordan Bynon via email regarding Y205288 requesting that Table 915 Metals be added to the analysis.

Requested modifications to the chain of custody were made by Jordan Bynon on 5/12/2022.

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 #H-17

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

Sample Receipt Checklist

Origins Work Order: Y205288 Client: Eagle
Client Project ID: Antelope H-17

Checklist Completed by: SG Shipped Via: HD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
Date/time completed: 5/12/22 Airbill #: N/A

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

Cooler Number/Temperature: 1, 2.5 °C °C °C (Describe) °C

Thermometer ID: T004

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 (> ¾ 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 (Project Manager) MP

Date/Time Reviewed 5/13/22

Origins Laboratory, Inc.

J. Bynon

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 #H-17

WH-FS-01@9'

5/11/2022 10:48:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205288-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0985	mg/L	1	B2E1304	05/13/2022	05/16/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E1317	05/13/2022	05/16/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	66.1 %	50-150			"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E1212	05/12/2022	05/12/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	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 #H-17

WH-FS-01@9'

5/11/2022 10:48:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205288-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	99.4 %		70-130			B2E12 12	05/12/2022	05/12/2022	
Surrogate: 4-Bromofluorobenzene	95.4 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.689		0.499	meq/L	10	[CALC]	05/13/2022	05/16/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.97		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L617064	05/19/2022	05/23/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	0.000544	0.000304	0.00067	"	"	"	"	"	J
Anthracene	0.000645	0.000334	0.00067	"	"	"	"	"	J
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.000582	0.000394	0.00067	"	"	"	"	"	J

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 #H-17

WH-FS-01@9'

5/11/2022 10:48:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y205288-01 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L617064	05/19/2022	05/23/2022
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	61.5 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	85.5 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	51.2 %	29-110	"	"	"

pH in Soil by 9045D

pH	7.78	pH Units	1	B2E1303	05/13/2022	05/14/2022
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SAR by 20B Saturated Paste

SAR	3.09	SAR	1	B2E1302	05/13/2022	05/16/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.276	0.00500	mmhos/cm	1	B2E1303	05/13/2022	05/14/2022
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Total Metals by 6020B

Arsenic	1.42	0.0855	0.25	mg/Kg	5	L617107	05/19/2022	05/22/2022
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Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope #H-17

WH-FS-01@9'

5/11/2022 10:48:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y205288-01 (Soil)

Total Metals by 6020B

Barium	34.9	0.042	0.25	mg/Kg	5	L617107	05/19/2022	05/22/2022	
Cadmium	0.0304	0.0259	0.25	"	"	"	"	"	J
Copper	2.16	0.0806	0.25	"	"	"	"	"	
Lead	3.54	0.031	0.25	"	"	"	"	"	
Nickel	1.9	0.0633	0.25	"	"	"	"	"	
Selenium	ND	0.103	0.25	"	"	"	"	"	
Silver	ND	0.0067	0.25	"	"	"	"	"	
Zinc	9.31	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.25	0.513	mg/Kg	1	L617342	05/11/2022	05/20/2022	
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Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope #H-17

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 B2E1212 - EPA 5030 (soil)										
Blank (B2E1212-BLK1)					Prepared: 05/12/2022 Analyzed: 05/12/2022					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.0100	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	103		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	104		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	92.3		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 #H-17

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 B2E1212 - EPA 5030 (soil)

LCS (B2E1212-BS1)

Prepared: 05/12/2022 Analyzed: 05/12/2022

1,2,4-Trimethylbenzene	0.0948	0.00200	mg/kg	0.100		94.8	70-130			
1,3,5-Trimethylbenzene	0.0954	0.00200	"	0.100		95.4	70-130			
Benzene	0.0960	0.00200	"	0.100		96.0	70-130			
Ethylbenzene	0.0990	0.00200	"	0.100		99.0	70-130			
Naphthalene	0.0952	0.0100	"	0.100		95.2	70-130			
Toluene	0.103	0.00200	"	0.100		103	70-130			
o-Xylene	0.0962	0.00200	"	0.100		96.2	70-130			
m,p-Xylene	0.201	0.00400	"	0.200		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	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 #H-17

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 B2E1212 - EPA 5030 (soil)

Matrix Spike (B2E1212-MS1)		Source: Y205311-01			Prepared: 05/12/2022 Analyzed: 05/12/2022					
1,2,4-Trimethylbenzene	0.105	0.00200	mg/kg	0.100	ND	105	70-130			
1,3,5-Trimethylbenzene	0.106	0.00200	"	0.100	ND	106	70-130			
Benzene	0.101	0.00200	"	0.100	ND	101	70-130			
Ethylbenzene	0.108	0.00200	"	0.100	ND	108	70-130			
Naphthalene	0.104	0.0100	"	0.100	ND	104	70-130			
Toluene	0.107	0.00200	"	0.100	ND	107	70-130			
o-Xylene	0.106	0.00200	"	0.100	ND	106	70-130			
m,p-Xylene	0.220	0.00400	"	0.200	ND	110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	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 #H-17

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 B2E1212 - EPA 5030 (soil)										
Matrix Spike Dup (B2E1212-MSD1)			Source: Y205311-01		Prepared: 05/12/2022 Analyzed: 05/12/2022					
1,2,4-Trimethylbenzene	0.102	0.00200	mg/kg	0.100	ND	102	70-130	2.60	20	
1,3,5-Trimethylbenzene	0.103	0.00200	"	0.100	ND	103	70-130	3.23	20	
Benzene	0.0998	0.00200	"	0.100	ND	99.8	70-130	0.778	20	
Ethylbenzene	0.106	0.00200	"	0.100	ND	106	70-130	1.74	20	
Naphthalene	0.102	0.0100	"	0.100	ND	102	70-130	2.05	20	
Toluene	0.105	0.00200	"	0.100	ND	105	70-130	1.64	20	
o-Xylene	0.104	0.00200	"	0.100	ND	104	70-130	1.61	20	
m,p-Xylene	0.218	0.00400	"	0.200	ND	109	70-130	1.08	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	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 #H-17

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 B2E1317 - EPA 3550B										
Blank (B2E1317-BLK1)					Prepared: 05/13/2022 Analyzed: 05/16/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	16		"	24.9		64.6	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 #H-17

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 B2E1317 - EPA 3550B

LCS (B2E1317-BS1)

Prepared: 05/13/2022 Analyzed: 05/16/2022

Diesel (C10-C28)	1000	50.0	mg/kg	1000		100	70-130			
Residual Range Organics (C28-C40)	833	200	"	1000		83.3	70-130			
Surrogate: o-Terphenyl	33		"	49.8		65.4	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 #H-17

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 B2E1317 - EPA 3550B

Matrix Spike (B2E1317-MS1)		Source: Y205281-01			Prepared: 05/13/2022 Analyzed: 05/16/2022					
Diesel (C10-C28)	1070	50.0	mg/kg	1000	ND	107	70-130			
Residual Range Organics (C28-C40)	920	200	"	1000	ND	92.0	70-130			
Surrogate: o-Terphenyl	33		"	49.8		66.6	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 #H-17

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 B2E1317 - EPA 3550B										
Matrix Spike Dup (B2E1317-MSD1)		Source: Y205281-01			Prepared: 05/13/2022 Analyzed: 05/16/2022					
Diesel (C10-C28)	1080	50.0	mg/kg	1000	ND	108	70-130	0.871	35	
Residual Range Organics (C28-C40)	882	200	"	1000	ND	88.2	70-130	4.20	35	
Surrogate: o-Terphenyl	33		"	49.8		65.7	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 #H-17

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 B2E1303 - NO PREP

Blank (B2E1303-BLK1)

Prepared: 05/13/2022 Analyzed: 05/14/2022

pH 0.00 pH Units
Specific Conductance (EC) 0.00460 0.0300 mmhos/cm

Duplicate (B2E1303-DUP1)

Source: Y205274-14

Prepared: 05/13/2022 Analyzed: 05/14/2022

Specific Conductance (EC) 0.267 0.0300 mmhos/cm 0.264 1.24 25
pH 8.29 pH Units 8.38 1.08 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 #H-17

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 L617064 - 3550B

MSD (L 91974-MSD-L617064)		Source: 91974			Prepared: 05/19/2022 Analyzed: 05/23/2022					
Naphthalene	0.0878	0.000484	mg/Kg	0.166	<0.000484	52.8	30-130	3.1	30	
Indeno(1,2,3-cd)pyrene	0.124	0.000627	"	0.166	<0.000627	74.6	30-130	1.6	30	
Fluorene	0.102	0.000286	"	0.166	<0.000286	61.4	30-130	2.1	30	
Fluoranthene	0.124	0.000394	"	0.166	<0.000394	74.6	30-130	0	30	
Dibenz(a,h)anthracene	0.12	0.000614	"	0.166	<0.000614	72.2	30-130	3.3	30	
Chrysene	0.0992	0.000624	"	0.166	<0.000624	59.7	30-130	4.8	30	
Benzo(k)fluoranthene	0.0896	0.000437	"	0.166	<0.000437	53.9	30-130	0.4	30	
2-Methylnaphthalene	0.0907	0.000645	"	0.166	<0.000645	54.6	30-130	3.3	30	
Pyrene	0.123	0.000643	"	0.166	<0.000643	74	30-130	1.6	30	
Benzo(b)fluoranthene	0.0838	0.000585	"	0.166	<0.000585	50.4	30-130	2.7	30	
1-Methylnaphthalene	0.0903	0.000364	"	0.166	<0.000364	54.3	30-130	3.8	30	
Acenaphthene	0.106	0.000304	"	0.166	<0.000304	63.8	30-130	2.8	30	
Anthracene	0.115	0.000334	"	0.166	<0.000334	69.2	30-130	0.8	30	
Benzo(a)anthracene	0.0996	0.000493	"	0.166	<0.000493	60	30-130	6.2	30	
Benzo(a)pyrene	0.103	0.000468	"	0.166	0.000873	61.5	30-130	0.9	30	
Surrogate: Nitrobenzene-d5	54.8		"	0.332	181	54.8	29-110			
Surrogate: 4-Terphenyl-d14	84.9		"	0.332	263	84.9	33-122			
Surrogate: 2-Fluorobiphenyl	61.7		"	0.332	202	61.7	33-115			

MS (L 91974-MS-L617064)		Source: 91974			Prepared: 05/19/2022 Analyzed: 05/23/2022					
Fluoranthene	0.124	0.000394	mg/Kg	0.163	<0.000394	76	30-130			
Benzo(a)pyrene	0.102	0.000468	"	0.163	0.000873	62	30-130			
Chrysene	0.0945	0.000624	"	0.163	<0.000624	57.9	30-130			
Benzo(k)fluoranthene	0.0892	0.000437	"	0.163	<0.000437	54.7	30-130			
Benzo(b)fluoranthene	0.0815	0.000585	"	0.163	<0.000585	50	30-130			
Benzo(a)anthracene	0.106	0.000493	"	0.163	<0.000493	65	30-130			
Anthracene	0.114	0.000334	"	0.163	<0.000334	69.9	30-130			

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope #H-17

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 L617064 - 3550B

MS (L 91974-MS-L617064)		Source: 91974			Prepared: 05/19/2022 Analyzed: 05/23/2022					
Acenaphthene	0.103	0.000304	mg/Kg	0.163	<0.000304	63.1	30-130			
2-Methylnaphthalene	0.0877	0.000645	"	0.163	<0.000645	53.8	30-130			
1-Methylnaphthalene	0.0869	0.000364	"	0.163	<0.000364	53.3	30-130			
Indeno(1,2,3-cd)pyrene	0.122	0.000627	"	0.163	<0.000627	74.8	30-130			
Fluorene	0.0998	0.000286	"	0.163	<0.000286	61.2	30-130			
Pyrene	0.121	0.000643	"	0.163	<0.000643	74.2	30-130			
Dibenz(a,h)anthracene	0.116	0.000614	"	0.163	<0.000614	71.1	30-130			
Naphthalene	0.0851	0.000484	"	0.163	<0.000484	52.2	30-130			
Surrogate: 2-Fluorobiphenyl	56.8		"	0.327	202	56.8	33-115			
Surrogate: 4-Terphenyl-d14	79.2		"	0.327	263	79.2	33-122			
Surrogate: Nitrobenzene-d5	48		"	0.327	181	48	29-110			

LCS (LCS-L617064)		Prepared: 05/19/2022 Analyzed: 05/23/2022								
Anthracene	0.115	0.000334	mg/Kg	0.167		68.8	30-130			
Fluorene	0.103	0.000286	"	0.167		61.6	30-130			
Dibenz(a,h)anthracene	0.106	0.000614	"	0.167		63.4	30-130			
Chrysene	0.0928	0.000624	"	0.167		55.5	30-130			
Benzo(k)fluoranthene	0.0858	0.000437	"	0.167		51.3	30-130			
Benzo(b)fluoranthene	0.0813	0.000585	"	0.167		48.6	30-130			
Benzo(a)anthracene	0.102	0.000493	"	0.167		61	30-130			
Indeno(1,2,3-cd)pyrene	0.0988	0.000627	"	0.167		59.1	30-130			
Acenaphthene	0.107	0.000304	"	0.167		64	30-130			
2-Methylnaphthalene	0.0931	0.000645	"	0.167		55.7	30-130			
Benzo(a)pyrene	0.0986	0.000468	"	0.167		59	30-130			
Naphthalene	0.0887	0.000484	"	0.167		53.1	30-130			
Pyrene	0.118	0.000643	"	0.167		70.6	30-130			
1-Methylnaphthalene	0.0929	0.000364	"	0.167		55.6	30-130			

Origins Laboratory, Inc.



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

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope #H-17

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 L617064 - 3550B

LCS (LCS-L617064)

Prepared: 05/19/2022 Analyzed: 05/23/2022

Fluoranthene	0.12	0.000394	mg/Kg	0.167		71.8	30-130			
Surrogate: 4-Terphenyl-d14	85.5		"	0.333		85.5	33-122			
Surrogate: 2-Fluorobiphenyl	69.9		"	0.333		69.9	33-115			
Surrogate: Nitrobenzene-d5	55.2		"	0.333		55.2	29-110			

LRB (LRB-L617064)

Prepared: 05/19/2022 Analyzed: 05/23/2022

2-Methylnaphthalene	ND	0.00067	mg/Kg				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	51.6		"	0.333		51.6	29-110			
Surrogate: 4-Terphenyl-d14	78.3		"	0.333		78.3	33-122			
Surrogate: 2-Fluorobiphenyl	57.6		"	0.333		57.6	33-115			

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope #H-17

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 L617107 - 3050B										
MSD (L 93391-MSD-L617107)			Source: 93391		Prepared: 05/19/2022 Analyzed: 05/22/2022					
Cadmium	0.49	0.0259	mg/Kg	0.469	0.0474	94	75-125	3.5	80	
Arsenic	2.54	0.0855	"	2.34	0.746	77	75-125	5.7	80	
Barium	18.5	0.042	"	4.69	20.7	NR	75-125	28.3	80	*
Copper	3.71	0.0806	"	2.34	2.4	56	75-125	11.1	80	*
Lead	4.09	0.031	"	2.34	2.66	61	75-125	9.7	80	*
Nickel	3.39	0.0633	"	2.34	1.82	67	75-125	11.4	80	*
Selenium	4.29	0.103	"	4.69	0.186	88	75-125	2	80	
Silver	0.468	0.0067	"	0.469	0.0143	97	75-125	1.5	80	
Zinc	31.5	0.534	"	23.4	13.1	79	75-125	4.6	80	
MS (L 93391-MS-L617107)			Source: 93391		Prepared: 05/19/2022 Analyzed: 05/22/2022					
Arsenic	2.69	0.0855	mg/Kg	2.33	0.746	84	75-125			
Silver	0.461	0.0067	"	0.465	0.0143	96	75-125			
Selenium	4.38	0.103	"	4.65	0.186	90	75-125			
Nickel	3.8	0.0633	"	2.33	1.82	85	75-125			
Lead	4.51	0.031	"	2.33	2.66	80	75-125			
Copper	4.15	0.0806	"	2.33	2.4	75	75-125			
Barium	24.6	0.042	"	4.65	20.7	84	75-125			
Zinc	33	0.534	"	23.3	13.1	86	75-125			
Cadmium	0.473	0.0259	"	0.465	0.0474	92	75-125			
LCS (LCS-L617107)			Prepared: 05/19/2022 Analyzed: 05/22/2022							
Copper	2.1	0.0806	mg/Kg	2.5		84	80-120			
Silver	0.471	0.0067	"	0.5		94	80-120			
Selenium	4.32	0.103	"	5		86	80-120			
Nickel	2.26	0.0633	"	2.5		90	80-120			
Zinc	22.8	0.534	"	25		91	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 #H-17

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 L617107 - 3050B

LCS (LCS-L617107)

Prepared: 05/19/2022 Analyzed: 05/22/2022

Lead	2.33	0.031	mg/Kg	2.5		93	80-120			
Barium	4.92	0.042	"	5		98	80-120			
Arsenic	2.19	0.0855	"	2.5		88	80-120			
Cadmium	0.437	0.0259	"	0.5		87	80-120			

LRB (LRB-L617107)

Prepared: 05/19/2022 Analyzed: 05/22/2022

Arsenic	ND	0.25	mg/Kg				-			
Silver	ND	0.25	"				-			
Selenium	ND	0.25	"				-			
Nickel	ND	0.25	"				-			
Lead	ND	0.25	"				-			
Copper	ND	0.25	"				-			
Barium	0.0855	0.25	"				-			J
Zinc	ND	2.5	"				-			
Cadmium	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 #H-17

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 L617342 -										
DUP (L 91999-DUP)	Source: 91999				Prepared: Analyzed: 05/20/2022					
Chromium, Hexavalent	ND	0.249	mg/Kg		<0.512	-		0	20	
MS (L 91999-MS)	Source: 91999				Prepared: Analyzed: 05/20/2022					
Chromium, Hexavalent	0.505	0.244	mg/Kg	7.81	<0.244	6	75-125			*
LCS (LCS)					Prepared: Analyzed: 05/20/2022					
Chromium, Hexavalent	6.25	0.244	mg/Kg	8		78	75-125			
LRB (LRB)					Prepared: Analyzed: 05/20/2022					
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 #H-17

Notes and Definitions

U Sample is Non-Detect.

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.



May 24, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Bonanza - Antelope #13-17

Project Number - [none]

Attached are your analytical results for Bonanza - Antelope #13-17 received by Origins Laboratory, Inc. May 11, 2022. This project is associated with Origins project number Y205289-01.

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 #13-17

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@9'	Y205289-01	Soil	May 11, 2022 10:38	05/11/2022 14:34

Chain of Custody Modification Request

On 5/12/2022, Andrew Newberry from Eagle Environmental contacted Jordan Bynon via email regarding Y205289 requesting that Table 915 Metals be added to the analysis.

Requested modifications to the chain of custody were made by Jordan Bynon on 5/12/2022.

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 #13-17

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

Sample Receipt Checklist

Origins Work Order: Y205289 Client: Eagle
Client Project ID: Antelope 13-17

Checklist Completed by: SG Shipped Via: HD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
Date/Time completed: 5/12/22 Airbill #: N/A

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

Cooler Number/Temperature: 1 12.5 °C °C °C (Describe)

Thermometer ID: T004

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 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) MP

Date/Time Reviewed 5/13/22

Origins Laboratory, Inc.

J. Bynon

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 #13-17

WH-FS-01@9'

5/11/2022 10:38:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205289-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.101	mg/L	1	B2E1304	05/13/2022	05/16/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E1317	05/13/2022	05/16/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	66.1 %	50-150	"	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E1212	05/12/2022	05/12/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %	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 #13-17

WH-FS-01@9'

5/11/2022 10:38:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205289-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	101 %	70-130	B2E12 12	05/12/2022	05/12/2022
Surrogate: 4-Bromofluorobenzene	94.4 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	0.704	0.499	meq/L	10	[CALC]	05/13/2022	05/16/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	0.944	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L617064	05/19/2022	05/23/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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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 #13-17

WH-FS-01@9'

5/11/2022 10:38:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y205289-01 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L617064	05/19/2022	05/23/2022
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	62.3 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	85.3 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	50 %	29-110	"	"	"

pH in Soil by 9045D

pH	7.98	pH Units	1	B2E1303	05/13/2022	05/14/2022
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SAR by 20B Saturated Paste

SAR	1.41	SAR	1	B2E1302	05/13/2022	05/16/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.221	0.00500	mmhos/cm	1	B2E1303	05/13/2022	05/14/2022
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Total Metals by 6020B

Arsenic	1.56	0.0855	0.25	mg/Kg	5	L616847	05/18/2022	05/22/2022
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Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope #13-17

WH-FS-01@9'

5/11/2022 10:38:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y205289-01 (Soil)

Total Metals by 6020B

Barium	42.7	0.042	0.25	mg/Kg	5	L616847	05/18/2022	05/22/2022	
Cadmium	0.0366	0.0259	0.25	"	"	"	"	"	J
Copper	2.51	0.0806	0.25	"	"	"	"	"	
Lead	3.27	0.031	0.25	"	"	"	"	"	
Nickel	2.48	0.0633	0.25	"	"	"	"	"	
Selenium	0.141	0.103	0.25	"	"	"	"	"	J
Silver	0.0086	0.0067	0.25	"	"	"	"	"	J
Zinc	12	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L617342	05/11/2022	05/20/2022	
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Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope #13-17

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 B2E1212 - EPA 5030 (soil)										
Blank (B2E1212-BLK1)					Prepared: 05/12/2022 Analyzed: 05/12/2022					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.0100	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	103		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	104		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	92.3		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 #13-17

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 B2E1212 - EPA 5030 (soil)

LCS (B2E1212-BS1)

Prepared: 05/12/2022 Analyzed: 05/12/2022

1,2,4-Trimethylbenzene	0.0948	0.00200	mg/kg	0.100		94.8	70-130			
1,3,5-Trimethylbenzene	0.0954	0.00200	"	0.100		95.4	70-130			
Benzene	0.0960	0.00200	"	0.100		96.0	70-130			
Ethylbenzene	0.0990	0.00200	"	0.100		99.0	70-130			
Naphthalene	0.0952	0.0100	"	0.100		95.2	70-130			
Toluene	0.103	0.00200	"	0.100		103	70-130			
o-Xylene	0.0962	0.00200	"	0.100		96.2	70-130			
m,p-Xylene	0.201	0.00400	"	0.200		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	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 #13-17

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 B2E1212 - EPA 5030 (soil)

Matrix Spike (B2E1212-MS1)		Source: Y205311-01			Prepared: 05/12/2022 Analyzed: 05/12/2022					
1,2,4-Trimethylbenzene	0.105	0.00200	mg/kg	0.100	ND	105	70-130			
1,3,5-Trimethylbenzene	0.106	0.00200	"	0.100	ND	106	70-130			
Benzene	0.101	0.00200	"	0.100	ND	101	70-130			
Ethylbenzene	0.108	0.00200	"	0.100	ND	108	70-130			
Naphthalene	0.104	0.0100	"	0.100	ND	104	70-130			
Toluene	0.107	0.00200	"	0.100	ND	107	70-130			
o-Xylene	0.106	0.00200	"	0.100	ND	106	70-130			
m,p-Xylene	0.220	0.00400	"	0.200	ND	110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

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Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope #13-17

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 B2E1212 - EPA 5030 (soil)										
Matrix Spike Dup (B2E1212-MSD1)		Source: Y205311-01			Prepared: 05/12/2022 Analyzed: 05/12/2022					
1,2,4-Trimethylbenzene	0.102	0.00200	mg/kg	0.100	ND	102	70-130	2.60	20	
1,3,5-Trimethylbenzene	0.103	0.00200	"	0.100	ND	103	70-130	3.23	20	
Benzene	0.0998	0.00200	"	0.100	ND	99.8	70-130	0.778	20	
Ethylbenzene	0.106	0.00200	"	0.100	ND	106	70-130	1.74	20	
Naphthalene	0.102	0.0100	"	0.100	ND	102	70-130	2.05	20	
Toluene	0.105	0.00200	"	0.100	ND	105	70-130	1.64	20	
o-Xylene	0.104	0.00200	"	0.100	ND	104	70-130	1.61	20	
m,p-Xylene	0.218	0.00400	"	0.200	ND	109	70-130	1.08	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

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Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope #13-17

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 B2E1317 - EPA 3550B										
Blank (B2E1317-BLK1)					Prepared: 05/13/2022 Analyzed: 05/16/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	16		"	24.9		64.6	50-150			

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Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope #13-17

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 B2E1317 - EPA 3550B

LCS (B2E1317-BS1)

Prepared: 05/13/2022 Analyzed: 05/16/2022

Diesel (C10-C28)	1000	50.0	mg/kg	1000		100	70-130			
Residual Range Organics (C28-C40)	833	200	"	1000		83.3	70-130			
Surrogate: o-Terphenyl	33		"	49.8		65.4	50-150			

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Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope #13-17

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 B2E1317 - EPA 3550B

Matrix Spike (B2E1317-MS1)		Source: Y205281-01			Prepared: 05/13/2022 Analyzed: 05/16/2022					
Diesel (C10-C28)	1070	50.0	mg/kg	1000	ND	107	70-130			
Residual Range Organics (C28-C40)	920	200	"	1000	ND	92.0	70-130			
Surrogate: o-Terphenyl	33		"	49.8		66.6	50-150			

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Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope #13-17

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 B2E1317 - EPA 3550B

Matrix Spike Dup (B2E1317-MSD1)		Source: Y205281-01			Prepared: 05/13/2022 Analyzed: 05/16/2022					
Diesel (C10-C28)	1080	50.0	mg/kg	1000	ND	108	70-130	0.871	35	
Residual Range Organics (C28-C40)	882	200	"	1000	ND	88.2	70-130	4.20	35	
Surrogate: o-Terphenyl	33		"	49.8		65.7	50-150			

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Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope #13-17

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 B2E1303 - NO PREP

Blank (B2E1303-BLK1)

Prepared: 05/13/2022 Analyzed: 05/14/2022

Specific Conductance (EC)	0.00460	0.0300	mmhos/cm
pH	0.00		pH Units

Duplicate (B2E1303-DUP1)

Source: Y205274-14

Prepared: 05/13/2022 Analyzed: 05/14/2022

Specific Conductance (EC)	0.267	0.0300	mmhos/cm	0.264	1.24	25
pH	8.29		pH Units	8.38	1.08	25

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Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope #13-17

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 L617064 - 3550B

MSD (L 91974-MSD-L617064)		Source: 91974			Prepared: 05/19/2022 Analyzed: 05/23/2022					
Chrysene	0.0992	0.000624	mg/Kg	0.166	91974	59.7	30-130	4.8	30	
Fluorene	0.102	0.000286	"	0.166	91974	61.4	30-130	2.1	30	
Pyrene	0.123	0.000643	"	0.166	91974	74	30-130	1.6	30	
Fluoranthene	0.124	0.000394	"	0.166	91974	74.6	30-130	0	30	
Dibenz(a,h)anthracene	0.12	0.000614	"	0.166	91974	72.2	30-130	3.3	30	
Indeno(1,2,3-cd)pyrene	0.124	0.000627	"	0.166	91974	74.6	30-130	1.6	30	
Naphthalene	0.0878	0.000484	"	0.166	91974	52.8	30-130	3.1	30	
Benzo(k)fluoranthene	0.0896	0.000437	"	0.166	91974	53.9	30-130	0.4	30	
1-Methylnaphthalene	0.0903	0.000364	"	0.166	91974	54.3	30-130	3.8	30	
2-Methylnaphthalene	0.0907	0.000645	"	0.166	91974	54.6	30-130	3.3	30	
Acenaphthene	0.106	0.000304	"	0.166	91974	63.8	30-130	2.8	30	
Anthracene	0.115	0.000334	"	0.166	91974	69.2	30-130	0.8	30	
Benzo(a)anthracene	0.0996	0.000493	"	0.166	91974	60	30-130	6.2	30	
Benzo(a)pyrene	0.103	0.000468	"	0.166	0.000873	61.5	30-130	0.9	30	
Benzo(b)fluoranthene	0.0838	0.000585	"	0.166	91974	50.4	30-130	2.7	30	
Surrogate: Nitrobenzene-d5	54.8		"	0.332	181	54.8	29-110			
Surrogate: 2-Fluorobiphenyl	61.7		"	0.332	202	61.7	33-115			
Surrogate: 4-Terphenyl-d14	84.9		"	0.332	263	84.9	33-122			

MS (L 91974-MS-L617064)		Source: 91974			Prepared: 05/19/2022 Analyzed: 05/23/2022					
Benzo(k)fluoranthene	0.0892	0.000437	mg/Kg	0.163	91974	54.7	30-130			
Benzo(b)fluoranthene	0.0815	0.000585	"	0.163	91974	50	30-130			
1-Methylnaphthalene	0.0869	0.000364	"	0.163	91974	53.3	30-130			
Pyrene	0.121	0.000643	"	0.163	91974	74.2	30-130			
Dibenz(a,h)anthracene	0.116	0.000614	"	0.163	91974	71.1	30-130			
Fluoranthene	0.124	0.000394	"	0.163	91974	76	30-130			
Fluorene	0.0998	0.000286	"	0.163	91974	61.2	30-130			

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Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope #13-17

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 L617064 - 3550B

MS (L 91974-MS-L617064)		Source: 91974			Prepared: 05/19/2022 Analyzed: 05/23/2022					
Indeno(1,2,3-cd)pyrene	0.122	0.000627	mg/Kg	0.163	91974	74.8	30-130			
Naphthalene	0.0851	0.000484	"	0.163	91974	52.2	30-130			
Chrysene	0.0945	0.000624	"	0.163	91974	57.9	30-130			
Benzo(a)anthracene	0.106	0.000493	"	0.163	91974	65	30-130			
Anthracene	0.114	0.000334	"	0.163	91974	69.9	30-130			
Acenaphthene	0.103	0.000304	"	0.163	91974	63.1	30-130			
Benzo(a)pyrene	0.102	0.000468	"	0.163	0.000873	62	30-130			
2-Methylnaphthalene	0.0877	0.000645	"	0.163	91974	53.8	30-130			
Surrogate: Nitrobenzene-d5	48		"	0.327	181	48	29-110			
Surrogate: 4-Terphenyl-d14	79.2		"	0.327	263	79.2	33-122			
Surrogate: 2-Fluorobiphenyl	56.8		"	0.327	202	56.8	33-115			

LCS (LCS-L617064)		Prepared: 05/19/2022 Analyzed: 05/23/2022								
Fluoranthene	0.12	0.000394	mg/Kg	0.167		71.8	30-130			
Dibenz(a,h)anthracene	0.106	0.000614	"	0.167		63.4	30-130			
Chrysene	0.0928	0.000624	"	0.167		55.5	30-130			
Benzo(k)fluoranthene	0.0858	0.000437	"	0.167		51.3	30-130			
Benzo(a)pyrene	0.0986	0.000468	"	0.167		59	30-130			
Fluorene	0.103	0.000286	"	0.167		61.6	30-130			
Pyrene	0.118	0.000643	"	0.167		70.6	30-130			
Indeno(1,2,3-cd)pyrene	0.0988	0.000627	"	0.167		59.1	30-130			
2-Methylnaphthalene	0.0931	0.000645	"	0.167		55.7	30-130			
Acenaphthene	0.107	0.000304	"	0.167		64	30-130			
Anthracene	0.115	0.000334	"	0.167		68.8	30-130			
1-Methylnaphthalene	0.0929	0.000364	"	0.167		55.6	30-130			
Benzo(a)anthracene	0.102	0.000493	"	0.167		61	30-130			
Benzo(b)fluoranthene	0.0813	0.000585	"	0.167		48.6	30-130			

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope #13-17

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 L617064 - 3550B

LCS (LCS-L617064)

Prepared: 05/19/2022 Analyzed: 05/23/2022

Naphthalene	0.0887	0.000484	mg/Kg	0.167		53.1	30-130			
Surrogate: Nitrobenzene-d5	55.2		"	0.333		55.2	29-110			
Surrogate: 4-Terphenyl-d14	85.5		"	0.333		85.5	33-122			
Surrogate: 2-Fluorobiphenyl	69.9		"	0.333		69.9	33-115			

LRB (LRB-L617064)

Prepared: 05/19/2022 Analyzed: 05/23/2022

Anthracene	ND	0.00067	mg/Kg				-			
1-Methylnaphthalene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Surrogate: 2-Fluorobiphenyl	57.6		"	0.333		57.6	33-115			
Surrogate: 4-Terphenyl-d14	78.3		"	0.333		78.3	33-122			
Surrogate: Nitrobenzene-d5	51.6		"	0.333		51.6	29-110			

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Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope #13-17

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 L616847 - 3050B										
MSD (L 93324-MSD-L616847)			Source: 93324		Prepared: 05/18/2022 Analyzed: 05/22/2022					
Cadmium	0.554	0.0259	mg/Kg	0.484	0.141	85	75-125	33	80	
Arsenic	5.19	0.0855	"	2.42	3.1	86	75-125	19.4	80	
Barium	115	0.042	"	4.84	105	207	75-125	41.9	80	*
Copper	15.5	0.0806	"	2.42	13.6	79	75-125	58.3	80	
Lead	10.6	0.031	"	2.42	8.57	84	75-125	29.1	80	
Nickel	13	0.0633	"	2.42	11.1	79	75-125	26.4	80	
Selenium	4.64	0.103	"	4.84	0.369	88	75-125	3.2	80	
Silver	0.503	0.0067	"	0.484	0.0509	93	75-125	8.7	80	
Zinc	71.7	0.534	"	24.2	44	115	75-125	49.3	80	
MS (L 93324-MS-L616847)			Source: 93324		Prepared: 05/18/2022 Analyzed: 05/22/2022					
Barium	176	0.042	mg/Kg	4.89	105	NR	75-125			*
Zinc	43.3	0.534	"	24.4	44	NR	75-125			*
Silver	0.461	0.0067	"	0.489	0.0509	84	75-125			
Selenium	4.49	0.103	"	4.89	0.369	84	75-125			
Nickel	9.96	0.0633	"	2.44	11.1	NR	75-125			*
Lead	7.9	0.031	"	2.44	8.57	NR	75-125			*
Cadmium	0.773	0.0259	"	0.489	0.141	129	75-125			*
Arsenic	4.27	0.0855	"	2.44	3.1	48	75-125			*
Copper	8.5	0.0806	"	2.44	13.6	NR	75-125			*
LCS (LCS-L616847)			Prepared: 05/18/2022 Analyzed: 05/22/2022							
Lead	2.34	0.031	mg/Kg	2.5		94	80-120			
Arsenic	2.25	0.0855	"	2.5		90	80-120			
Silver	0.468	0.0067	"	0.5		94	80-120			
Selenium	4.49	0.103	"	5		90	80-120			
Zinc	23.1	0.534	"	25		92	80-120			

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8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope #13-17

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 L616847 - 3050B										
LCS (LCS-L616847)					Prepared: 05/18/2022 Analyzed: 05/22/2022					
Nickel	2.29	0.0633	mg/Kg	2.5		92	80-120			
Cadmium	0.452	0.0259	"	0.5		90	80-120			
Barium	4.83	0.042	"	5		97	80-120			
Copper	2.16	0.0806	"	2.5		86	80-120			
LRB (LRB-L616847)					Prepared: 05/18/2022 Analyzed: 05/22/2022					
Barium	ND	0.25	mg/Kg				-			
Zinc	ND	2.5	"				-			
Silver	ND	0.25	"				-			
Selenium	ND	0.25	"				-			
Nickel	ND	0.25	"				-			
Lead	ND	0.25	"				-			
Cadmium	ND	0.25	"				-			
Arsenic	ND	0.25	"				-			
Copper	ND	0.25	"				-			

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Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope #13-17

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 L617342 -										
DUP (L 91999-DUP)	Source: 91999				Prepared: Analyzed: 05/20/2022					
Chromium, Hexavalent	ND	0.249	mg/Kg		91999	-		0	20	
MS (L 91999-MS)	Source: 91999				Prepared: Analyzed: 05/20/2022					
Chromium, Hexavalent	0.505	0.244	mg/Kg	7.81	91999	6	75-125			*
LCS (LCS)					Prepared: Analyzed: 05/20/2022					
Chromium, Hexavalent	6.25	0.244	mg/Kg	8		78	75-125			
LRB (LRB)					Prepared: Analyzed: 05/20/2022					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



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

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope #13-17

Notes and Definitions

U Sample is Non-Detect.

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.



May 24, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Bonanza - Antelope #12-17

Project Number - [none]

Attached are your analytical results for Bonanza - Antelope #12-17 received by Origins Laboratory, Inc. May 11, 2022. This project is associated with Origins project number Y205290-01.

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 #12-17

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@9'	Y205290-01	Soil	May 11, 2022 10:23	05/11/2022 14:34

Chain of Custody Modification Request

On 5/12/2022, Andrew Newberry from Eagle Environmental contacted Jordan Bynon via email regarding Y205290 requesting that Table 915 Metals be added to the analysis.

Requested modifications to the chain of custody were made by Jordan Bynon on 5/12/2022.

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 #12-17

1705290

page 1 of 1

Client: Eagle Env. Consulting
Address: 8000 W 44th Ave.
Wheat Ridge, CO 80033
Telephone Number: 303-432-4779
Email Address: MCE3@eagle-environment.com

Project Manager: Martin Eckert III
Project Name: Antelope #12-17
Project Number: R14
Samples Collected By:

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix		Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Groundwater	Soil	Air Summa		
641-F5-01091	5/11/22	1023	2								1
											2
											3
											4
											5
											6
											7
											8
											9
											10

Relinquished By: [Signature] Date: 5/11/22 Time: 1434
Relinquished By: [Signature] Date: 5/11/22 Time: 1434

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

Temp Received: 2.5
Date Results Needed: 5/11/22
Bill to Luke

Origins Laboratory, Inc.

Bynon

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 #12-17

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

Sample Receipt Checklist

Origins Work Order: Y205290 Client: Eagle
Client Project ID: Antelope 12-17

Checklist Completed by: SG Shipped Via: HD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
Date/time completed: 5/12/22 Airbill #: N/A

Matrix(s) Received: (Check all that apply): X Soil/Solid Water Other: _____
Cooler Number/Temperature: 1, 12.5 °C _____ °C _____ °C (Describe)
Thermometer ID: T004

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

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

Reviewed by (Project Manager) MP

Date/Time Reviewed 5/13/22

Origins Laboratory, Inc.

Bynon

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 #12-17

WH-FS-01@9'

5/11/2022 10:23:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205290-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.102	mg/L	1	B2E1304	05/13/2022	05/16/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E1317	05/13/2022	05/16/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	64.5 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E1212	05/12/2022	05/12/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	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 #12-17

WH-FS-01@9'

5/11/2022 10:23:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205290-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	99.7 %	70-130	B2E12 12	05/12/2022	05/12/2022
Surrogate: 4-Bromofluorobenzene	94.7 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	0.634	0.499	meq/L	10	[CALC]	05/13/2022	05/16/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	1.04	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L617064	05/19/2022	05/23/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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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 #12-17

WH-FS-01@9'

5/11/2022 10:23:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y205290-01 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L617064	05/19/2022	05/23/2022
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	62.3 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	81.9 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	55.4 %	29-110	"	"	"

pH in Soil by 9045D

pH	7.86	pH Units	1	B2E1303	05/13/2022	05/14/2022
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SAR by 20B Saturated Paste

SAR	1.60	SAR	1	B2E1302	05/13/2022	05/16/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.215	0.00500	mmhos/cm	1	B2E1303	05/13/2022	05/14/2022
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Total Metals by 6020B

Arsenic	1.31	0.0855	0.25	mg/Kg	5	L617107	05/19/2022	05/22/2022
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Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope #12-17

WH-FS-01@9'

5/11/2022 10:23:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y205290-01 (Soil)

Total Metals by 6020B

Barium	35.7	0.042	0.25	mg/Kg	5	L617107	05/19/2022	05/22/2022	
Cadmium	0.0344	0.0259	0.25	"	"	"	"	"	J
Copper	1.65	0.0806	0.25	"	"	"	"	"	
Lead	2.84	0.031	0.25	"	"	"	"	"	
Nickel	1.9	0.0633	0.25	"	"	"	"	"	
Selenium	0.11	0.103	0.25	"	"	"	"	"	J
Silver	ND	0.0067	0.25	"	"	"	"	"	
Zinc	9.03	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.245	0.503	mg/Kg	1	L617342	05/11/2022	05/20/2022	
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Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope #12-17

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 B2E1212 - EPA 5030 (soil)										
Blank (B2E1212-BLK1)					Prepared: 05/12/2022 Analyzed: 05/12/2022					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.0100	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	103		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	104		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	92.3		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 #12-17

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 B2E1212 - EPA 5030 (soil)

LCS (B2E1212-BS1)

Prepared: 05/12/2022 Analyzed: 05/12/2022

1,2,4-Trimethylbenzene	0.0948	0.00200	mg/kg	0.100		94.8	70-130			
1,3,5-Trimethylbenzene	0.0954	0.00200	"	0.100		95.4	70-130			
Benzene	0.0960	0.00200	"	0.100		96.0	70-130			
Ethylbenzene	0.0990	0.00200	"	0.100		99.0	70-130			
Naphthalene	0.0952	0.0100	"	0.100		95.2	70-130			
Toluene	0.103	0.00200	"	0.100		103	70-130			
o-Xylene	0.0962	0.00200	"	0.100		96.2	70-130			
m,p-Xylene	0.201	0.00400	"	0.200		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	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 #12-17

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 B2E1212 - EPA 5030 (soil)

Matrix Spike (B2E1212-MS1)		Source: Y205311-01			Prepared: 05/12/2022 Analyzed: 05/12/2022					
1,2,4-Trimethylbenzene	0.105	0.00200	mg/kg	0.100	ND	105	70-130			
1,3,5-Trimethylbenzene	0.106	0.00200	"	0.100	ND	106	70-130			
Benzene	0.101	0.00200	"	0.100	ND	101	70-130			
Ethylbenzene	0.108	0.00200	"	0.100	ND	108	70-130			
Naphthalene	0.104	0.0100	"	0.100	ND	104	70-130			
Toluene	0.107	0.00200	"	0.100	ND	107	70-130			
o-Xylene	0.106	0.00200	"	0.100	ND	106	70-130			
m,p-Xylene	0.220	0.00400	"	0.200	ND	110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	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 #12-17

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 B2E1212 - EPA 5030 (soil)										
Matrix Spike Dup (B2E1212-MSD1)			Source: Y205311-01		Prepared: 05/12/2022 Analyzed: 05/12/2022					
1,2,4-Trimethylbenzene	0.102	0.00200	mg/kg	0.100	ND	102	70-130	2.60	20	
1,3,5-Trimethylbenzene	0.103	0.00200	"	0.100	ND	103	70-130	3.23	20	
Benzene	0.0998	0.00200	"	0.100	ND	99.8	70-130	0.778	20	
Ethylbenzene	0.106	0.00200	"	0.100	ND	106	70-130	1.74	20	
Naphthalene	0.102	0.0100	"	0.100	ND	102	70-130	2.05	20	
Toluene	0.105	0.00200	"	0.100	ND	105	70-130	1.64	20	
o-Xylene	0.104	0.00200	"	0.100	ND	104	70-130	1.61	20	
m,p-Xylene	0.218	0.00400	"	0.200	ND	109	70-130	1.08	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	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 #12-17

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 B2E1317 - EPA 3550B										
Blank (B2E1317-BLK1)					Prepared: 05/13/2022 Analyzed: 05/16/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	16		"	24.9		64.6	50-150			

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 #12-17

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 B2E1317 - EPA 3550B

LCS (B2E1317-BS1)

Prepared: 05/13/2022 Analyzed: 05/16/2022

Diesel (C10-C28)	1000	50.0	mg/kg	1000		100	70-130			
Residual Range Organics (C28-C40)	833	200	"	1000		83.3	70-130			
Surrogate: o-Terphenyl	33		"	49.8		65.4	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 #12-17

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 B2E1317 - EPA 3550B

Matrix Spike (B2E1317-MS1)		Source: Y205281-01			Prepared: 05/13/2022 Analyzed: 05/16/2022					
Diesel (C10-C28)	1070	50.0	mg/kg	1000	ND	107	70-130			
Residual Range Organics (C28-C40)	920	200	"	1000	ND	92.0	70-130			
Surrogate: o-Terphenyl	33		"	49.8		66.6	50-150			

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 #12-17

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 B2E1317 - EPA 3550B										
Matrix Spike Dup (B2E1317-MSD1)										
					Source: Y205281-01					
					Prepared: 05/13/2022 Analyzed: 05/16/2022					
Diesel (C10-C28)	1080	50.0	mg/kg	1000	ND	108	70-130	0.871	35	
Residual Range Organics (C28-C40)	882	200	"	1000	ND	88.2	70-130	4.20	35	
Surrogate: o-Terphenyl	33		"	49.8		65.7	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 #12-17

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 B2E1303 - NO PREP

Blank (B2E1303-BLK1)

Prepared: 05/13/2022 Analyzed: 05/14/2022

pH 0.00 pH Units
Specific Conductance (EC) 0.00460 0.0300 mmhos/cm

Duplicate (B2E1303-DUP1)

Source: Y205274-14

Prepared: 05/13/2022 Analyzed: 05/14/2022

Specific Conductance (EC) 0.267 0.0300 mmhos/cm 0.264 1.24 25
pH 8.29 pH Units 8.38 1.08 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 #12-17

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 L617064 - 3550B

MSD (L 91974-MSD-L617064)		Source: 91974			Prepared: 05/19/2022 Analyzed: 05/23/2022					
Naphthalene	0.0878	0.000484	mg/Kg	0.166	<0.000484	52.8	30-130	3.1	30	
Indeno(1,2,3-cd)pyrene	0.124	0.000627	"	0.166	<0.000627	74.6	30-130	1.6	30	
Fluorene	0.102	0.000286	"	0.166	<0.000286	61.4	30-130	2.1	30	
Fluoranthene	0.124	0.000394	"	0.166	<0.000394	74.6	30-130	0	30	
Dibenz(a,h)anthracene	0.12	0.000614	"	0.166	<0.000614	72.2	30-130	3.3	30	
Chrysene	0.0992	0.000624	"	0.166	<0.000624	59.7	30-130	4.8	30	
Benzo(k)fluoranthene	0.0896	0.000437	"	0.166	<0.000437	53.9	30-130	0.4	30	
2-Methylnaphthalene	0.0907	0.000645	"	0.166	<0.000645	54.6	30-130	3.3	30	
Pyrene	0.123	0.000643	"	0.166	<0.000643	74	30-130	1.6	30	
Benzo(b)fluoranthene	0.0838	0.000585	"	0.166	<0.000585	50.4	30-130	2.7	30	
1-Methylnaphthalene	0.0903	0.000364	"	0.166	<0.000364	54.3	30-130	3.8	30	
Acenaphthene	0.106	0.000304	"	0.166	<0.000304	63.8	30-130	2.8	30	
Anthracene	0.115	0.000334	"	0.166	<0.000334	69.2	30-130	0.8	30	
Benzo(a)anthracene	0.0996	0.000493	"	0.166	<0.000493	60	30-130	6.2	30	
Benzo(a)pyrene	0.103	0.000468	"	0.166	0.000873	61.5	30-130	0.9	30	
Surrogate: Nitrobenzene-d5	54.8		"	0.332	181	54.8	29-110			
Surrogate: 4-Terphenyl-d14	84.9		"	0.332	263	84.9	33-122			
Surrogate: 2-Fluorobiphenyl	61.7		"	0.332	202	61.7	33-115			

MS (L 91974-MS-L617064)		Source: 91974			Prepared: 05/19/2022 Analyzed: 05/23/2022					
Fluoranthene	0.124	0.000394	mg/Kg	0.163	<0.000394	76	30-130			
Benzo(a)pyrene	0.102	0.000468	"	0.163	0.000873	62	30-130			
Chrysene	0.0945	0.000624	"	0.163	<0.000624	57.9	30-130			
Benzo(k)fluoranthene	0.0892	0.000437	"	0.163	<0.000437	54.7	30-130			
Benzo(b)fluoranthene	0.0815	0.000585	"	0.163	<0.000585	50	30-130			
Benzo(a)anthracene	0.106	0.000493	"	0.163	<0.000493	65	30-130			
Anthracene	0.114	0.000334	"	0.163	<0.000334	69.9	30-130			

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope #12-17

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 L617064 - 3550B

MS (L 91974-MS-L617064)		Source: 91974			Prepared: 05/19/2022 Analyzed: 05/23/2022					
Acenaphthene	0.103	0.000304	mg/Kg	0.163	<0.000304	63.1	30-130			
2-Methylnaphthalene	0.0877	0.000645	"	0.163	<0.000645	53.8	30-130			
1-Methylnaphthalene	0.0869	0.000364	"	0.163	<0.000364	53.3	30-130			
Indeno(1,2,3-cd)pyrene	0.122	0.000627	"	0.163	<0.000627	74.8	30-130			
Fluorene	0.0998	0.000286	"	0.163	<0.000286	61.2	30-130			
Pyrene	0.121	0.000643	"	0.163	<0.000643	74.2	30-130			
Dibenz(a,h)anthracene	0.116	0.000614	"	0.163	<0.000614	71.1	30-130			
Naphthalene	0.0851	0.000484	"	0.163	<0.000484	52.2	30-130			
Surrogate: 2-Fluorobiphenyl	56.8		"	0.327	202	56.8	33-115			
Surrogate: 4-Terphenyl-d14	79.2		"	0.327	263	79.2	33-122			
Surrogate: Nitrobenzene-d5	48		"	0.327	181	48	29-110			

LCS (LCS-L617064)		Prepared: 05/19/2022 Analyzed: 05/23/2022								
Anthracene	0.115	0.000334	mg/Kg	0.167		68.8	30-130			
Fluorene	0.103	0.000286	"	0.167		61.6	30-130			
Dibenz(a,h)anthracene	0.106	0.000614	"	0.167		63.4	30-130			
Chrysene	0.0928	0.000624	"	0.167		55.5	30-130			
Benzo(k)fluoranthene	0.0858	0.000437	"	0.167		51.3	30-130			
Benzo(b)fluoranthene	0.0813	0.000585	"	0.167		48.6	30-130			
Benzo(a)anthracene	0.102	0.000493	"	0.167		61	30-130			
Indeno(1,2,3-cd)pyrene	0.0988	0.000627	"	0.167		59.1	30-130			
Acenaphthene	0.107	0.000304	"	0.167		64	30-130			
2-Methylnaphthalene	0.0931	0.000645	"	0.167		55.7	30-130			
Benzo(a)pyrene	0.0986	0.000468	"	0.167		59	30-130			
Naphthalene	0.0887	0.000484	"	0.167		53.1	30-130			
Pyrene	0.118	0.000643	"	0.167		70.6	30-130			
1-Methylnaphthalene	0.0929	0.000364	"	0.167		55.6	30-130			

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope #12-17

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 L617064 - 3550B

LCS (LCS-L617064)

Prepared: 05/19/2022 Analyzed: 05/23/2022

Fluoranthene	0.12	0.000394	mg/Kg	0.167		71.8	30-130			
Surrogate: 4-Terphenyl-d14	85.5		"	0.333		85.5	33-122			
Surrogate: 2-Fluorobiphenyl	69.9		"	0.333		69.9	33-115			
Surrogate: Nitrobenzene-d5	55.2		"	0.333		55.2	29-110			

LRB (LRB-L617064)

Prepared: 05/19/2022 Analyzed: 05/23/2022

2-Methylnaphthalene	ND	0.00067	mg/Kg				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	51.6		"	0.333		51.6	29-110			
Surrogate: 4-Terphenyl-d14	78.3		"	0.333		78.3	33-122			
Surrogate: 2-Fluorobiphenyl	57.6		"	0.333		57.6	33-115			

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope #12-17

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 L617107 - 3050B										
MSD (L 93391-MSD-L617107)			Source: 93391		Prepared: 05/19/2022 Analyzed: 05/22/2022					
Cadmium	0.49	0.0259	mg/Kg	0.469	0.0474	94	75-125	3.5	80	
Arsenic	2.54	0.0855	"	2.34	0.746	77	75-125	5.7	80	
Barium	18.5	0.042	"	4.69	20.7	NR	75-125	28.3	80	*
Copper	3.71	0.0806	"	2.34	2.4	56	75-125	11.1	80	*
Lead	4.09	0.031	"	2.34	2.66	61	75-125	9.7	80	*
Nickel	3.39	0.0633	"	2.34	1.82	67	75-125	11.4	80	*
Selenium	4.29	0.103	"	4.69	0.186	88	75-125	2	80	
Silver	0.468	0.0067	"	0.469	0.0143	97	75-125	1.5	80	
Zinc	31.5	0.534	"	23.4	13.1	79	75-125	4.6	80	
MS (L 93391-MS-L617107)			Source: 93391		Prepared: 05/19/2022 Analyzed: 05/22/2022					
Arsenic	2.69	0.0855	mg/Kg	2.33	0.746	84	75-125			
Silver	0.461	0.0067	"	0.465	0.0143	96	75-125			
Selenium	4.38	0.103	"	4.65	0.186	90	75-125			
Nickel	3.8	0.0633	"	2.33	1.82	85	75-125			
Lead	4.51	0.031	"	2.33	2.66	80	75-125			
Copper	4.15	0.0806	"	2.33	2.4	75	75-125			
Barium	24.6	0.042	"	4.65	20.7	84	75-125			
Zinc	33	0.534	"	23.3	13.1	86	75-125			
Cadmium	0.473	0.0259	"	0.465	0.0474	92	75-125			
LCS (LCS-L617107)			Prepared: 05/19/2022 Analyzed: 05/22/2022							
Copper	2.1	0.0806	mg/Kg	2.5		84	80-120			
Silver	0.471	0.0067	"	0.5		94	80-120			
Selenium	4.32	0.103	"	5		86	80-120			
Nickel	2.26	0.0633	"	2.5		90	80-120			
Zinc	22.8	0.534	"	25		91	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 #12-17

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 L617107 - 3050B

LCS (LCS-L617107)

Prepared: 05/19/2022 Analyzed: 05/22/2022

Lead	2.33	0.031	mg/Kg	2.5		93	80-120			
Barium	4.92	0.042	"	5		98	80-120			
Arsenic	2.19	0.0855	"	2.5		88	80-120			
Cadmium	0.437	0.0259	"	0.5		87	80-120			

LRB (LRB-L617107)

Prepared: 05/19/2022 Analyzed: 05/22/2022

Arsenic	ND	0.25	mg/Kg				-			
Silver	ND	0.25	"				-			
Selenium	ND	0.25	"				-			
Nickel	ND	0.25	"				-			
Lead	ND	0.25	"				-			
Copper	ND	0.25	"				-			
Barium	0.0855	0.25	"				-			J
Zinc	ND	2.5	"				-			
Cadmium	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 #12-17

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 L617342 -										
DUP (L 91999-DUP)		Source: 91999			Prepared: Analyzed: 05/20/2022					
Chromium, Hexavalent	ND	0.249	mg/Kg		<0.512	-		0	20	
MS (L 91999-MS)		Source: 91999			Prepared: Analyzed: 05/20/2022					
Chromium, Hexavalent	0.505	0.244	mg/Kg	7.81	<0.244	6	75-125			*
LCS (LCS)					Prepared: Analyzed: 05/20/2022					
Chromium, Hexavalent	6.25	0.244	mg/Kg	8		78	75-125			
LRB (LRB)					Prepared: Analyzed: 05/20/2022					
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 #12-17

Notes and Definitions

U Sample is Non-Detect.

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.



May 26, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

**Project Name - Bonanza - Antelope
12-17,13-17,H-17,D-17 Tank Batt**

Project Number - [none]

Attached are your analytical results for Bonanza - Antelope 12-17,13-17,H-17,D-17 Tank Batt received by Origins Laboratory, Inc. May 13, 2022. This project is associated with Origins project number Y205375-01.

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

12-17,13-17,H-17,D-17 Tank Batt

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-SS-01@0-0.25'	Y205375-01	Soil	May 13, 2022 10:00	05/13/2022 16:05
TB-SS-02@0-0.25'	Y205375-02	Soil	May 13, 2022 10:05	05/13/2022 16:05
TB-SS-03@0-0.25'	Y205375-03	Soil	May 13, 2022 10:10	05/13/2022 16:05
TB-SS-04@0-0.25'	Y205375-04	Soil	May 13, 2022 10:15	05/13/2022 16:05
TB-SS-05@0-0.25'	Y205375-05	Soil	May 13, 2022 10:20	05/13/2022 16:05
TB-SS-06@0-0.25'	Y205375-06	Soil	May 13, 2022 10:25	05/13/2022 16:05
TB-SS-07@3'	Y205375-07	Soil	May 13, 2022 11:00	05/13/2022 16:05
TB-SS-08@3'	Y205375-08	Soil	May 13, 2022 11:05	05/13/2022 16:05
WV-SS-03@4'	Y205375-09	Soil	May 13, 2022 10:40	05/13/2022 16:05
WV-FS-01@5'	Y205375-10	Soil	May 13, 2022 10:50	05/13/2022 16:05

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope
12-17,13-17,H-17,D-17 Tank Batt

Client: Eagle Environmental Consulting
Address: 8000 W 44th Ave
Wheat Ridge, CO 80033
Telephone Number: 303-433-0479
Email Address: meo3@eagle-enviro.com

Project Manager: Martin Eckert III
Project Name: Antelope 12-17,13-17,H-17,D-17 Tank Batt
Project Number: _____
Samples Collected By: TC

1705375
www.originslaboratory.com
page 1 of 1

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative	Matrix	Analysis	Sample Instructions
TR-55-0100-0.25'	05-13-22	1000	2	Unpreserved	Soil	X	EC, SM, pH =
TR-55-0200-0.25'		1005				X	Screened, Paste Prep
TR-55-0300-0.25'		1010				X	
TR-55-0400-0.75'		1015				X	
TR-55-0500-0.25'		1020				X	
TR-55-0600-0.25'		1025				X	
TR-55-0700-0.75'		1100				X	
TR-55-0800-0.75'		1105				X	
WI-55-0304'		1040				X	
WI-55-0105'		1050				X	
Relinquished By: Trevor Copple	Date: 05-13-22	Time: 1665					
Relinquished By:	Date:	Time:					

Temp Received: 32
Date Results Needed: Bonanza

Jefe Pellegrini

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope
12-17, 13-17, H-17, D-17 Tank Batt

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y205375 Client: Eagle
Client Project ID: Antelope 12-17, 13-17, H-17, D

Checklist Completed by: SG Shipped Via: HD
Date/time completed: 5/16/22 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
Airbill #: N/A

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☐ Water ☐ Other: _____
Cooler Number/Temperature: 1, 3.2 °C (Describe)
Thermometer ID: T004

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

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

Reviewed by (Project Manager) JB Date/Time Reviewed 5-17-22

Origins Laboratory, Inc.

Jefe Pellegrini

Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope
12-17,13-17,H-17,D-17 Tank Batt

TB-SS-01@0-0.25'
5/13/2022 10:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205375-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0991	mg/L	1	B2E1706	05/17/2022	05/18/2022	U
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E1614	05/16/2022	05/17/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E1613	05/16/2022	05/16/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.9 %	70-130	"	"	"	"	"	"
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope
12-17,13-17,H-17,D-17 Tank Batt

TB-SS-01@0-0.25'
5/13/2022 10:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205375-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	102 %	70-130	B2E16 13	05/16/2022	05/16/2022
Surrogate: 4-Bromofluorobenzene	94.9 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.42	0.499	meq/L	10	[CALC]	05/17/2022	05/18/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	0.470	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L617275	05/20/2022	05/20/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope
12-17,13-17,H-17,D-17 Tank Batt

TB-SS-01@0-0.25'
5/13/2022 10:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y205375-01 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L617275	05/20/2022	05/20/2022
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	61.8 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	83.8 %		33-122			"	"	"
Surrogate: Nitrobenzene-d5	61.2 %		29-110			"	"	"

pH in Soil by 9045D

pH	7.69			pH Units	1	B2E1705	05/17/2022	05/18/2022
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SAR by 20B Saturated Paste

SAR	0.479			SAR	1	B2E1704	05/17/2022	05/18/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.316		0.00500	mmhos/cm	1	B2E1705	05/17/2022	05/18/2022
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Total Metals by 6020B

Arsenic	2.72	0.0855	0.25	mg/Kg	5	L617107	05/19/2022	05/22/2022
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope
12-17,13-17,H-17,D-17 Tank Batt

TB-SS-01@0-0.25'
5/13/2022 10:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y205375-01 (Soil)

Total Metals by 6020B

Barium	37.8	0.042	0.25	mg/Kg	5	L617107	05/19/2022	05/22/2022	
Cadmium	0.0414	0.0259	0.25	"	"	"	"	"	J
Copper	1.72	0.0806	0.25	"	"	"	"	"	
Lead	4.7	0.031	0.25	"	"	"	"	"	
Nickel	2.18	0.0633	0.25	"	"	"	"	"	
Selenium	0.16	0.103	0.25	"	"	"	"	"	J
Silver	0.008	0.0067	0.25	"	"	"	"	"	J
Zinc	10.9	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.248	0.51	mg/Kg	1	L617536	05/13/2022	05/22/2022	
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope
12-17,13-17,H-17,D-17 Tank Batt

TB-SS-02@0-0.25'
5/13/2022 10:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205375-02 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0996	mg/L	1	B2E1706	05/17/2022	05/18/2022	U
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E1614	05/16/2022	05/17/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	93.1 %	50-150	"	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E1613	05/16/2022	05/16/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.0 %	70-130	"	"	"	"	"	"
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope
12-17,13-17,H-17,D-17 Tank Batt

TB-SS-02@0-0.25'
5/13/2022 10:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205375-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	102 %	70-130	B2E16 13	05/16/2022	05/16/2022
Surrogate: 4-Bromofluorobenzene	98.6 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.04	0.499	meq/L	10	[CALC]	05/17/2022	05/18/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L617275	05/20/2022	05/20/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope
12-17,13-17,H-17,D-17 Tank Batt

TB-SS-02@0-0.25'
5/13/2022 10:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y205375-02 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L617275	05/20/2022	05/20/2022
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	56.8 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	86.4 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	52.3 %	29-110	"	"	"

pH in Soil by 9045D

pH	7.61	pH Units	1	B2E1705	05/17/2022	05/18/2022
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SAR by 20B Saturated Paste

SAR	0.450	SAR	1	B2E1704	05/17/2022	05/18/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.245	0.00500	mmhos/cm	1	B2E1705	05/17/2022	05/18/2022
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Total Metals by 6020B

Arsenic	1.41	0.0855	0.25	mg/Kg	5	L617107	05/19/2022	05/22/2022
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope
12-17,13-17,H-17,D-17 Tank Batt

TB-SS-02@0-0.25'
5/13/2022 10:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y205375-02 (Soil)

Total Metals by 6020B

Barium	25.2	0.042	0.25	mg/Kg	5	L617107	05/19/2022	05/22/2022	
Cadmium	0.034	0.0259	0.25	"	"	"	"	"	J
Copper	1.52	0.0806	0.25	"	"	"	"	"	
Lead	2.53	0.031	0.25	"	"	"	"	"	
Nickel	1.9	0.0633	0.25	"	"	"	"	"	
Selenium	0.146	0.103	0.25	"	"	"	"	"	J
Silver	0.0083	0.0067	0.25	"	"	"	"	"	J
Zinc	9.98	0.534	2.5	"	"	"	"	"	

Total Metals by 7196 A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L617730	05/13/2022	05/23/2022	
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope
12-17,13-17,H-17,D-17 Tank Batt

TB-SS-03@0-0.25'
5/13/2022 10:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205375-03 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B2E1706	05/17/2022	05/18/2022	U
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E1614	05/16/2022	05/17/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	86.4 %	50-150	"	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E1613	05/16/2022	05/16/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130	"	"	"	"	"	"
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope
12-17,13-17,H-17,D-17 Tank Batt

TB-SS-03@0-0.25'
5/13/2022 10:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205375-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	102 %		70-130			B2E16 13	05/16/2022	05/16/2022
Surrogate: 4-Bromofluorobenzene	94.7 %		70-130			"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.85		0.499	meq/L	10	[CALC]	05/17/2022	05/18/2022
Magnesium	ND		0.823	"	"	"	"	"
Sodium	0.535		0.435	"	"	"	"	"

PAH by 8270D-SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L617276	05/20/2022	05/23/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope
12-17,13-17,H-17,D-17 Tank Batt

TB-SS-03@0-0.25'
5/13/2022 10:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y205375-03 (Soil)

PAH by 8270D-SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L617276	05/20/2022	05/23/2022
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	57.8 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	74.5 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	52 %	29-110	"	"	"

pH in Soil by 9045D

pH	7.53	pH Units	1	B2E1705	05/17/2022	05/18/2022
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SAR by 20B Saturated Paste

SAR	0.478	SAR	1	B2E1704	05/17/2022	05/18/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.404	0.00500	mmhos/cm	1	B2E1705	05/17/2022	05/18/2022
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Total Metals by 6020B

Arsenic	1.77	0.0855	0.25	mg/Kg	5	L617107	05/19/2022	05/22/2022
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope
12-17,13-17,H-17,D-17 Tank Batt

TB-SS-03@0-0.25'
5/13/2022 10:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y205375-03 (Soil)

Total Metals by 6020B

Barium	31	0.042	0.25	mg/Kg	5	L617107	05/19/2022	05/22/2022	
Cadmium	0.0415	0.0259	0.25	"	"	"	"	"	J
Copper	1.91	0.0806	0.25	"	"	"	"	"	
Lead	2.95	0.031	0.25	"	"	"	"	"	
Nickel	2.29	0.0633	0.25	"	"	"	"	"	
Selenium	0.163	0.103	0.25	"	"	"	"	"	J
Silver	0.0086	0.0067	0.25	"	"	"	"	"	J
Zinc	12.1	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.251	0.515	mg/Kg	1	L617536	05/13/2022	05/22/2022	
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope
12-17,13-17,H-17,D-17 Tank Batt

TB-SS-04@0-0.25'
5/13/2022 10:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205375-04 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0988	mg/L	1	B2E1706	05/17/2022	05/18/2022	U
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E1614	05/16/2022	05/17/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	75.4 %	50-150	"	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E1613	05/16/2022	05/16/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.5 %	70-130	"	"	"	"	"	"
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope
12-17,13-17,H-17,D-17 Tank Batt

TB-SS-04@0-0.25'
5/13/2022 10:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205375-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	105 %	70-130	B2E16 13	05/16/2022	05/16/2022
Surrogate: 4-Bromofluorobenzene	92.3 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.00	0.499	meq/L	10	[CALC]	05/17/2022	05/18/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by 8270D-SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L617276	05/20/2022	05/23/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope
12-17,13-17,H-17,D-17 Tank Batt

TB-SS-04@0-0.25'
5/13/2022 10:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y205375-04 (Soil)

PAH by 8270D-SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L617276	05/20/2022	05/23/2022
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	64 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	85.5 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	53.8 %	29-110	"	"	"

pH in Soil by 9045D

pH	7.82	pH Units	1	B2E1705	05/17/2022	05/18/2022
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SAR by 20B Saturated Paste

SAR	0.394	SAR	1	B2E1704	05/17/2022	05/18/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.237	0.00500	mmhos/cm	1	B2E1705	05/17/2022	05/18/2022
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Total Metals by 6020B

Arsenic	1.39	0.0855	0.25	mg/Kg	5	L617107	05/19/2022	05/22/2022
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope
12-17,13-17,H-17,D-17 Tank Batt

TB-SS-04@0-0.25'
5/13/2022 10:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y205375-04 (Soil)

Total Metals by 6020B

Barium	28.6	0.042	0.25	mg/Kg	5	L617107	05/19/2022	05/22/2022	
Cadmium	0.0427	0.0259	0.25	"	"	"	"	"	J
Copper	1.61	0.0806	0.25	"	"	"	"	"	
Lead	2.28	0.031	0.25	"	"	"	"	"	
Nickel	2.71	0.0633	0.25	"	"	"	"	"	
Selenium	0.145	0.103	0.25	"	"	"	"	"	J
Silver	0.0074	0.0067	0.25	"	"	"	"	"	J
Zinc	10.7	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.251	0.516	mg/Kg	1	L617536	05/13/2022	05/22/2022	
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope
12-17,13-17,H-17,D-17 Tank Batt

TB-SS-05@0-0.25'
5/13/2022 10:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205375-05 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.101	mg/L	1	B2E1706	05/17/2022	05/18/2022	U
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E1614	05/16/2022	05/17/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	94.5 %	50-150	"	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E1613	05/16/2022	05/16/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130	"	"	"	"	"	"
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope
12-17,13-17,H-17,D-17 Tank Batt

TB-SS-05@0-0.25'

5/13/2022 10:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205375-05 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	102 %		70-130			B2E16 13	05/16/2022	05/16/2022
Surrogate: 4-Bromofluorobenzene	94.8 %		70-130			"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.56		0.499	meq/L	10	[CALC]	05/17/2022	05/18/2022
Magnesium	ND		0.823	"	"	"	"	"
Sodium	ND		0.435	"	"	"	"	"

PAH by 8270D-SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L617276	05/20/2022	05/23/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope
12-17,13-17,H-17,D-17 Tank Batt

TB-SS-05@0-0.25'
5/13/2022 10:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y205375-05 (Soil)

PAH by 8270D-SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L617276	05/20/2022	05/23/2022
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	63.1 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	78.5 %		33-122			"	"	"
Surrogate: Nitrobenzene-d5	56.8 %		29-110			"	"	"

pH in Soil by 9045D

pH	7.53			pH Units	1	B2E1705	05/17/2022	05/18/2022
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SAR by 20B Saturated Paste

SAR	0.257			SAR	1	B2E1704	05/17/2022	05/18/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.312		0.00500	mmhos/cm	1	B2E1705	05/17/2022	05/18/2022
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Total Metals by 6020B

Arsenic	1.59	0.0855	0.25	mg/Kg	5	L617107	05/19/2022	05/22/2022
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope
12-17,13-17,H-17,D-17 Tank Batt

TB-SS-05@0-0.25'
5/13/2022 10:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y205375-05 (Soil)

Total Metals by 6020B

Barium	38.5	0.042	0.25	mg/Kg	5	L617107	05/19/2022	05/22/2022	
Cadmium	0.0392	0.0259	0.25	"	"	"	"	"	J
Copper	1.56	0.0806	0.25	"	"	"	"	"	
Lead	2.89	0.031	0.25	"	"	"	"	"	
Nickel	2.29	0.0633	0.25	"	"	"	"	"	
Selenium	0.123	0.103	0.25	"	"	"	"	"	J
Silver	0.0102	0.0067	0.25	"	"	"	"	"	J
Zinc	12.3	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L617536	05/13/2022	05/22/2022	
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope
12-17,13-17,H-17,D-17 Tank Batt

TB-SS-06@0-0.25'
5/13/2022 10:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205375-06 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.101	mg/L	1	B2E1706	05/17/2022	05/18/2022	U
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E1614	05/16/2022	05/17/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	95.3 %	50-150	"	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E1613	05/16/2022	05/16/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130	"	"	"	"	"	"
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope
12-17,13-17,H-17,D-17 Tank Batt

TB-SS-06@0-0.25'
5/13/2022 10:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205375-06 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	102 %	70-130	B2E16 13	05/16/2022	05/16/2022
Surrogate: 4-Bromofluorobenzene	97.3 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	0.838	0.499	meq/L	10	[CALC]	05/17/2022	05/18/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by 8270D-SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L617276	05/20/2022	05/23/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope
12-17,13-17,H-17,D-17 Tank Batt

TB-SS-06@0-0.25'
5/13/2022 10:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y205375-06 (Soil)

PAH by 8270D-SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L617276	05/20/2022	05/23/2022
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	60.7 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	80.8 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	56.1 %	29-110	"	"	"

pH in Soil by 9045D

pH	7.65	pH Units	1	B2E1705	05/17/2022	05/18/2022
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SAR by 20B Saturated Paste

SAR	0.251	SAR	1	B2E1704	05/17/2022	05/18/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.183	0.00500	mmhos/cm	1	B2E1705	05/17/2022	05/18/2022
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Total Metals by 6020B

Arsenic	1.44	0.0855	0.25	mg/Kg	5	L617107	05/19/2022	05/22/2022
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope
12-17,13-17,H-17,D-17 Tank Batt

TB-SS-06@0-0.25'
5/13/2022 10:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y205375-06 (Soil)

Total Metals by 6020B

Barium	40.6	0.042	0.25	mg/Kg	5	L617107	05/19/2022	05/22/2022	
Cadmium	0.0322	0.0259	0.25	"	"	"	"	"	J
Copper	1.44	0.0806	0.25	"	"	"	"	"	
Lead	3.92	0.031	0.25	"	"	"	"	"	
Nickel	1.93	0.0633	0.25	"	"	"	"	"	
Selenium	0.11	0.103	0.25	"	"	"	"	"	J
Silver	0.0067	0.0067	0.25	"	"	"	"	"	J
Zinc	9.6	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L617536	05/13/2022	05/22/2022	
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope
12-17,13-17,H-17,D-17 Tank Batt

TB-SS-07@3'

5/13/2022 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205375-07 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.102	mg/L	1	B2E1706	05/17/2022	05/18/2022	U
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E1614	05/16/2022	05/18/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	98.3 %	50-150	"	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E1613	05/16/2022	05/16/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130	"	"	"	"	"	"
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope
12-17,13-17,H-17,D-17 Tank Batt

TB-SS-07@3'

5/13/2022 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205375-07 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	103 %	70-130	B2E16 13	05/16/2022	05/16/2022
Surrogate: 4-Bromofluorobenzene	94.8 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	05/17/2022	05/18/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by 8270D-SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L617276	05/20/2022	05/23/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope
12-17,13-17,H-17,D-17 Tank Batt

TB-SS-07@3'

5/13/2022 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y205375-07 (Soil)

PAH by 8270D-SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L617276	05/20/2022	05/23/2022
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	62.5 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	81.8 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	53.2 %	29-110	"	"	"

pH in Soil by 9045D

pH	7.15	pH Units	1	B2E1705	05/17/2022	05/18/2022
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SAR by 20B Saturated Paste

SAR	0.721	SAR	1	B2E1704	05/17/2022	05/18/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.136	0.00500	mmhos/cm	1	B2E1705	05/17/2022	05/18/2022
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Total Metals by 6020B

Arsenic	2.32	0.0855	0.25	mg/Kg	5	L617107	05/19/2022	05/22/2022
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope
12-17,13-17,H-17,D-17 Tank Batt

TB-SS-07@3'

5/13/2022 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y205375-07 (Soil)

Total Metals by 6020B

Barium	31	0.042	0.25	mg/Kg	5	L617107	05/19/2022	05/22/2022	
Cadmium	0.041	0.0259	0.25	"	"	"	"	"	J
Copper	1.72	0.0806	0.25	"	"	"	"	"	
Lead	2.92	0.031	0.25	"	"	"	"	"	
Nickel	2.31	0.0633	0.25	"	"	"	"	"	
Selenium	0.128	0.103	0.25	"	"	"	"	"	J
Silver	ND	0.0067	0.25	"	"	"	"	"	
Zinc	10.7	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.245	0.504	mg/Kg	1	L617536	05/13/2022	05/22/2022	
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope
12-17,13-17,H-17,D-17 Tank Batt

TB-SS-08@3'

5/13/2022 11:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205375-08 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B2E1706	05/17/2022	05/18/2022	U
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E1614	05/16/2022	05/18/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	88.7 %	50-150	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E1613	05/16/2022	05/16/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130	"	"	"	"	"
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope
12-17,13-17,H-17,D-17 Tank Batt

TB-SS-08@3'

5/13/2022 11:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205375-08 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	104 %	70-130	B2E16 13	05/16/2022	05/16/2022
Surrogate: 4-Bromofluorobenzene	93.7 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	05/17/2022	05/18/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by 8270D-SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L617276	05/20/2022	05/23/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope
12-17,13-17,H-17,D-17 Tank Batt

TB-SS-08@3'

5/13/2022 11:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y205375-08 (Soil)

PAH by 8270D-SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L617276	05/20/2022	05/23/2022
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	66.3 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	83.1 %		33-122			"	"	"
Surrogate: Nitrobenzene-d5	52.7 %		29-110			"	"	"

pH in Soil by 9045D

pH	7.15			pH Units	1	B2E1705	05/17/2022	05/18/2022
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SAR by 20B Saturated Paste

SAR	0.762			SAR	1	B2E1704	05/17/2022	05/18/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.153		0.00500	mmhos/cm	1	B2E1705	05/17/2022	05/18/2022
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Total Metals by 6020B

Arsenic	1.67	0.0855	0.25	mg/Kg	5	L617107	05/19/2022	05/22/2022
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope
12-17,13-17,H-17,D-17 Tank Batt

TB-SS-08@3'

5/13/2022 11:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y205375-08 (Soil)

Total Metals by 6020B

Barium	45.7	0.042	0.25	mg/Kg	5	L617107	05/19/2022	05/22/2022	
Cadmium	0.0435	0.0259	0.25	"	"	"	"	"	J
Copper	2.19	0.0806	0.25	"	"	"	"	"	
Lead	3.7	0.031	0.25	"	"	"	"	"	
Nickel	2.59	0.0633	0.25	"	"	"	"	"	
Selenium	0.162	0.103	0.25	"	"	"	"	"	J
Silver	0.0088	0.0067	0.25	"	"	"	"	"	J
Zinc	12.3	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.247	0.507	mg/Kg	1	L617536	05/13/2022	05/22/2022	
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope
12-17,13-17,H-17,D-17 Tank Batt

WV-SS-03@4'

5/13/2022 10:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205375-09 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0984	mg/L	1	B2E1706	05/17/2022	05/18/2022	U
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E1614	05/16/2022	05/18/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	95.1 %	50-150	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E1613	05/16/2022	05/16/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130	"	"	"	"	"
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope
12-17,13-17,H-17,D-17 Tank Batt

WV-SS-03@4'

5/13/2022 10:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205375-09 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	102 %		70-130			B2E16 13	05/16/2022	05/16/2022
Surrogate: 4-Bromofluorobenzene	93.8 %		70-130			"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.23		0.499	meq/L	10	[CALC]	05/17/2022	05/18/2022
Magnesium	ND		0.823	"	"	"	"	"
Sodium	ND		0.435	"	"	"	"	"

PAH by 8270D-SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L617276	05/20/2022	05/23/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope
12-17,13-17,H-17,D-17 Tank Batt

WV-SS-03@4'

5/13/2022 10:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y205375-09 (Soil)

PAH by 8270D-SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L617276	05/20/2022	05/23/2022
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	61 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	77.3 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	52 %	29-110	"	"	"

pH in Soil by 9045D

pH	7.54	pH Units	1	B2E1705	05/17/2022	05/18/2022
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SAR by 20B Saturated Paste

SAR	0.308	SAR	1	B2E1704	05/17/2022	05/18/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.267	0.00500	mmhos/cm	1	B2E1705	05/17/2022	05/18/2022
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Total Metals by 6020B

Arsenic	1.63	0.0855	0.25	mg/Kg	5	L617107	05/19/2022	05/22/2022
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope
12-17,13-17,H-17,D-17 Tank Batt

WV-SS-03@4'

5/13/2022 10:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y205375-09 (Soil)

Total Metals by 6020B

Barium	38.2	0.042	0.25	mg/Kg	5	L617107	05/19/2022	05/22/2022	
Cadmium	0.0323	0.0259	0.25	"	"	"	"	"	J
Copper	1.72	0.0806	0.25	"	"	"	"	"	
Lead	3.24	0.031	0.25	"	"	"	"	"	
Nickel	2.39	0.0633	0.25	"	"	"	"	"	
Selenium	0.192	0.103	0.25	"	"	"	"	"	J
Silver	0.0097	0.0067	0.25	"	"	"	"	"	J
Zinc	19.1	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.25	0.514	mg/Kg	1	L617536	05/13/2022	05/22/2022	
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope
12-17,13-17,H-17,D-17 Tank Batt

WV-FS-01@5'

5/13/2022 10:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205375-10 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.101	mg/L	1	B2E1706	05/17/2022	05/18/2022	U
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E1614	05/16/2022	05/18/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	97.3 %	50-150	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E1613	05/16/2022	05/16/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	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
12-17,13-17,H-17,D-17 Tank Batt

WV-FS-01@5'

5/13/2022 10:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205375-10 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	102 %		70-130			B2E16 13	05/16/2022	05/16/2022
Surrogate: 4-Bromofluorobenzene	94.8 %		70-130			"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.48		0.499	meq/L	10	[CALC]	05/17/2022	05/18/2022
Magnesium	ND		0.823	"	"	"	"	"
Sodium	ND		0.435	"	"	"	"	"

PAH by 8270D-SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L617276	05/20/2022	05/23/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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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
12-17,13-17,H-17,D-17 Tank Batt

WV-FS-01@5'

5/13/2022 10:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y205375-10 (Soil)

PAH by 8270D-SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L617276	05/20/2022	05/23/2022
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	58.5 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	75.8 %		33-122			"	"	"
Surrogate: Nitrobenzene-d5	49.7 %		29-110			"	"	"

pH in Soil by 9045D

pH	7.46			pH Units	1	B2E1705	05/17/2022	05/18/2022
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SAR by 20B Saturated Paste

SAR	0.291			SAR	1	B2E1704	05/17/2022	05/18/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.307		0.00500	mmhos/cm	1	B2E1705	05/17/2022	05/18/2022
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Total Metals by 6020B

Arsenic	1.9	0.0855	0.25	mg/Kg	5	L617107	05/19/2022	05/22/2022
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Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope
12-17,13-17,H-17,D-17 Tank Batt

WV-FS-01@5'

5/13/2022 10:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y205375-10 (Soil)

Total Metals by 6020B

Barium	38.9	0.042	0.25	mg/Kg	5	L617107	05/19/2022	05/22/2022	
Cadmium	0.0393	0.0259	0.25	"	"	"	"	"	J
Copper	1.79	0.0806	0.25	"	"	"	"	"	
Lead	3.28	0.031	0.25	"	"	"	"	"	
Nickel	2.31	0.0633	0.25	"	"	"	"	"	
Selenium	0.126	0.103	0.25	"	"	"	"	"	J
Silver	0.0087	0.0067	0.25	"	"	"	"	"	J
Zinc	13.5	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.501	mg/Kg	1	L617536	05/13/2022	05/22/2022	
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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope
12-17,13-17,H-17,D-17 Tank Batt

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 B2E1613 - EPA 5030 (soil)										
Blank (B2E1613-BLK1)					Prepared: 05/16/2022 Analyzed: 05/16/2022					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.0100	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.8	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.8	70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope
12-17,13-17,H-17,D-17 Tank Batt

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 B2E1613 - EPA 5030 (soil)

LCS (B2E1613-BS1)

Prepared: 05/16/2022 Analyzed: 05/16/2022

1,2,4-Trimethylbenzene	0.105	0.00200	mg/kg	0.100		105	70-130			
1,3,5-Trimethylbenzene	0.105	0.00200	"	0.100		105	70-130			
Benzene	0.0954	0.00200	"	0.100		95.4	70-130			
Ethylbenzene	0.107	0.00200	"	0.100		107	70-130			
Naphthalene	0.102	0.0100	"	0.100		102	70-130			
Toluene	0.106	0.00200	"	0.100		106	70-130			
o-Xylene	0.104	0.00200	"	0.100		104	70-130			
m,p-Xylene	0.217	0.00400	"	0.200		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		90.4	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	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
12-17,13-17,H-17,D-17 Tank Batt

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 B2E1613 - EPA 5030 (soil)										
Matrix Spike (B2E1613-MS1)		Source: Y205375-02			Prepared: 05/16/2022 Analyzed: 05/16/2022					
1,2,4-Trimethylbenzene	0.111	0.00200	mg/kg	0.100	ND	111	70-130			
1,3,5-Trimethylbenzene	0.113	0.00200	"	0.100	ND	113	70-130			
Benzene	0.100	0.00200	"	0.100	ND	100	70-130			
Ethylbenzene	0.117	0.00200	"	0.100	ND	117	70-130			
Naphthalene	0.0958	0.0100	"	0.100	ND	95.8	70-130			
Toluene	0.113	0.00200	"	0.100	ND	113	70-130			
o-Xylene	0.113	0.00200	"	0.100	ND	113	70-130			
m,p-Xylene	0.237	0.00400	"	0.200	ND	119	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		89.4	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		106	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
12-17,13-17,H-17,D-17 Tank Batt

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 B2E1613 - EPA 5030 (soil)										
Matrix Spike Dup (B2E1613-MSD1)		Source: Y205375-02			Prepared: 05/16/2022 Analyzed: 05/16/2022					
1,2,4-Trimethylbenzene	0.102	0.00200	mg/kg	0.100	ND	102	70-130	7.91	20	
1,3,5-Trimethylbenzene	0.104	0.00200	"	0.100	ND	104	70-130	7.93	20	
Benzene	0.0942	0.00200	"	0.100	ND	94.2	70-130	6.49	20	
Ethylbenzene	0.105	0.00200	"	0.100	ND	105	70-130	10.2	20	
Naphthalene	0.0945	0.0100	"	0.100	ND	94.5	70-130	1.37	20	
Toluene	0.104	0.00200	"	0.100	ND	104	70-130	7.58	20	
o-Xylene	0.104	0.00200	"	0.100	ND	104	70-130	8.63	20	
m,p-Xylene	0.214	0.00400	"	0.200	ND	107	70-130	10.2	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		90.9	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	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

12-17,13-17,H-17,D-17 Tank Batt

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 B2E1614 - EPA 3550B

Blank (B2E1614-BLK1)

Prepared: 05/16/2022 Analyzed: 05/17/2022

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	25		"	24.9		99.4	50-150			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Martin C Eckert III

Project Number: [none]

Project: Bonanza - Antelope

12-17,13-17,H-17,D-17 Tank Batt

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 B2E1614 - EPA 3550B

LCS (B2E1614-BS1)

Prepared: 05/16/2022 Analyzed: 05/17/2022

Diesel (C10-C28)	497	25.0	mg/kg	500		99.5	70-130			
Residual Range Organics (C28-C40)	541	100	"	500		108	70-130			
Surrogate: o-Terphenyl	29		"	24.9		115	50-150			

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

12-17,13-17,H-17,D-17 Tank Batt

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 B2E1614 - EPA 3550B

Matrix Spike (B2E1614-MS1)		Source: Y205375-01			Prepared: 05/16/2022 Analyzed: 05/17/2022					
Diesel (C10-C28)	508	25.0	mg/kg	500	ND	102	70-130			
Residual Range Organics (C28-C40)	555	100	"	500	ND	111	70-130			
Surrogate: o-Terphenyl	24		"	24.9		96.4	50-150			

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

12-17,13-17,H-17,D-17 Tank Batt

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 B2E1614 - EPA 3550B

Matrix Spike Dup (B2E1614-MSD1)		Source: Y205375-01			Prepared: 05/16/2022 Analyzed: 05/17/2022					
Diesel (C10-C28)	535	25.0	mg/kg	500	ND	107	70-130	5.17	35	
Residual Range Organics (C28-C40)	542	100	"	500	ND	108	70-130	2.32	35	
Surrogate: o-Terphenyl	24		"	24.9		98.3	50-150			

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
12-17,13-17,H-17,D-17 Tank Batt

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 B2E1706 - Default Prep Metals

Blank (B2E1706-BLK1)

Prepared: 05/17/2022 Analyzed: 05/18/2022

Boron	ND	0.100	mg/L							U
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Duplicate (B2E1706-DUP1)

Source: Y205367-03

Prepared: 05/17/2022 Analyzed: 05/18/2022

Boron	0.202	0.101	mg/L		0.181			10.7	50	
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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
12-17,13-17,H-17,D-17 Tank Batt

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2E1705 - NO PREP										
Blank (B2E1705-BLK1)					Prepared: 05/17/2022 Analyzed: 05/18/2022					
Specific Conductance (EC)	ND	0.0300	mmhos/cm							U
pH	0.00		pH Units							U
Duplicate (B2E1705-DUP1)					Source: Y205367-02 Prepared: 05/17/2022 Analyzed: 05/18/2022					
pH	8.10		pH Units		8.10			0.00	25	
Specific Conductance (EC)	0.165	0.0300	mmhos/cm		0.135			20.4	25	

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope
12-17,13-17,H-17,D-17 Tank Batt

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 L617275 - 3550B

MSD (L 94277-MSD-L617275)		Source: 94277			Prepared: 05/20/2022 Analyzed: 05/20/2022					
Benzo(a)pyrene	0.0103	0.000468	mg/Kg	0.164	94277	6.2	30-130	9.2	30	*
Naphthalene	0.00879	0.000484	"	0.164	94277	5.3	30-130	2.4	30	*
Indeno(1,2,3-cd)pyrene	0.00774	0.000627	"	0.164	0.00236	3.2	30-130	15	30	*
Fluorene	0.0101	0.000286	"	0.164	94277	6.1	30-130	2.9	30	*
Fluoranthene	0.011	0.000394	"	0.164	94277	6.7	30-130	5.3	30	*
Dibenz(a,h)anthracene	0.00691	0.000614	"	0.164	94277	4.2	30-130	16.1	30	*
Chrysene	0.0107	0.000624	"	0.164	94277	6.5	30-130	10.6	30	*
Benzo(b)fluoranthene	0.00878	0.000585	"	0.164	94277	5.3	30-130	10.5	30	*
Pyrene	0.011	0.000643	"	0.164	94277	6.7	30-130	7	30	*
Benzo(a)anthracene	0.0116	0.000493	"	0.164	94277	7	30-130	5.8	30	*
Anthracene	0.00992	0.000334	"	0.164	94277	6	30-130	6.6	30	*
Acenaphthene	0.00943	0.000304	"	0.164	94277	5.7	30-130	1.7	30	*
1-Methylnaphthalene	0.00915	0.000364	"	0.164	94277	5.5	30-130	2.3	30	*
Benzo(k)fluoranthene	0.00921	0.000437	"	0.164	94277	5.6	30-130	14	30	*
2-Methylnaphthalene	0.00923	0.000645	"	0.164	94277	5.6	30-130	2.8	30	*
Surrogate: Nitrobenzene-d5	5.5		"	0.329	216	5.5	29-110			*
Surrogate: 4-Terphenyl-d14	8.5		"	0.329	329	8.5	33-122			*
Surrogate: 2-Fluorobiphenyl	5.8		"	0.329	229	5.8	33-115			*

MS (L 94277-MS-L617275)		Source: 94277			Prepared: 05/20/2022 Analyzed: 05/20/2022					
Anthracene	0.0106	0.000334	mg/Kg	0.166	94277	6.3	30-130			*
Fluoranthene	0.0116	0.000394	"	0.166	94277	6.9	30-130			*
Dibenz(a,h)anthracene	0.00812	0.000614	"	0.166	94277	4.8	30-130			*
Chrysene	0.0119	0.000624	"	0.166	94277	7.1	30-130			*
Benzo(k)fluoranthene	0.0106	0.000437	"	0.166	94277	6.3	30-130			*
Benzo(b)fluoranthene	0.00976	0.000585	"	0.166	94277	5.8	30-130			*
Indeno(1,2,3-cd)pyrene	0.009	0.000627	"	0.166	94277	5.4	30-130			*

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope
12-17,13-17,H-17,D-17 Tank Batt

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 L617275 - 3550B

MS (L 94277-MS-L617275)		Source: 94277			Prepared: 05/20/2022 Analyzed: 05/20/2022					
Benzo(a)anthracene	0.0123	0.000493	mg/Kg	0.166	94277	7.4	30-130			*
Naphthalene	0.00858	0.000484	"	0.166	94277	5.1	30-130			*
Acenaphthene	0.0096	0.000304	"	0.166	94277	5.7	30-130			*
2-Methylnaphthalene	0.00897	0.000645	"	0.166	94277	5.4	30-130			*
1-Methylnaphthalene	0.00894	0.000364	"	0.166	94277	5.3	30-130			*
Benzo(a)pyrene	0.0113	0.000468	"	0.166	94277	6.8	30-130			*
Pyrene	0.0118	0.000643	"	0.166	94277	7.1	30-130			*
Fluorene	0.0104	0.000286	"	0.166	94277	6.2	30-130			*
Surrogate: 4-Terphenyl-d14	8.5		"	0.331	329	8.5	33-122			*
Surrogate: 2-Fluorobiphenyl	5.5		"	0.331	229	5.5	33-115			*
Surrogate: Nitrobenzene-d5	5.1		"	0.331	216	5.1	29-110			*

LCS (LCS-L617275)		Prepared: 05/20/2022 Analyzed: 05/20/2022								
Benzo(k)fluoranthene	0.118	0.000437	mg/Kg	0.167		70.6	30-130			
2-Methylnaphthalene	0.111	0.000645	"	0.167		66.4	30-130			
Pyrene	0.131	0.000643	"	0.167		78.4	30-130			
Naphthalene	0.108	0.000484	"	0.167		64.6	30-130			
Indeno(1,2,3-cd)pyrene	0.159	0.000627	"	0.167		95.2	30-130			
Dibenz(a,h)anthracene	0.14	0.000614	"	0.167		83.8	30-130			
Chrysene	0.125	0.000624	"	0.167		74.8	30-130			
Benzo(b)fluoranthene	0.13	0.000585	"	0.167		77.8	30-130			
Benzo(a)pyrene	0.131	0.000468	"	0.167		78.4	30-130			
Benzo(a)anthracene	0.132	0.000493	"	0.167		79	30-130			
Anthracene	0.126	0.000334	"	0.167		75.4	30-130			
Fluorene	0.127	0.000286	"	0.167		76	30-130			
Fluoranthene	0.131	0.000394	"	0.167		78.4	30-130			
Acenaphthene	0.119	0.000304	"	0.167		71.2	30-130			

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope
12-17,13-17,H-17,D-17 Tank Batt

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 L617275 - 3550B

LCS (LCS-L617275)

Prepared: 05/20/2022 Analyzed: 05/20/2022

1-Methylnaphthalene	0.112	0.000364	mg/Kg	0.167		67	30-130			
Surrogate: Nitrobenzene-d5	68.4		"	0.333		68.4	29-110			
Surrogate: 4-Terphenyl-d14	114		"	0.333		114	33-122			
Surrogate: 2-Fluorobiphenyl	81.6		"	0.333		81.6	33-115			

LRB (LRB-L617275)

Prepared: 05/20/2022 Analyzed: 05/20/2022

Pyrene	ND	0.00067	mg/Kg				-			
1-Methylnaphthalene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Surrogate: 2-Fluorobiphenyl	72.6		"	0.333		72.6	33-115			
Surrogate: 4-Terphenyl-d14	99.6		"	0.333		99.6	33-122			
Surrogate: Nitrobenzene-d5	64.8		"	0.333		64.8	29-110			

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Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope
12-17,13-17,H-17,D-17 Tank Batt

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 L617276 - 3550B

MSD (L 93366-MSD-L617276)		Source: Y205375-08			Prepared: 05/20/2022 Analyzed: 05/23/2022					
Chrysene	0.111	0.000624	mg/Kg	0.165	93366	67.2	30-130	0.8	30	
1-Methylnaphthalene	0.0987	0.000364	"	0.165	93366	59.8	30-130	1.2	30	
Naphthalene	0.0954	0.000484	"	0.165	93366	57.8	30-130	0.3	30	
Indeno(1,2,3-cd)pyrene	0.132	0.000627	"	0.165	93366	80	30-130	8.6	30	
Fluorene	0.115	0.000286	"	0.165	93366	69.6	30-130	2.6	30	
Fluoranthene	0.141	0.000394	"	0.165	93366	85.4	30-130	3.6	30	
Dibenz(a,h)anthracene	0.131	0.000614	"	0.165	93366	79.3	30-130	12.1	30	
Benzo(k)fluoranthene	0.1	0.000437	"	0.165	93366	60.6	30-130	9.3	30	
Benzo(b)fluoranthene	0.0921	0.000585	"	0.165	93366	55.8	30-130	2.9	30	
Benzo(a)pyrene	0.12	0.000468	"	0.165	93366	72.7	30-130	3.3	30	
Benzo(a)anthracene	0.124	0.000493	"	0.165	93366	75.1	30-130	8.4	30	
Anthracene	0.13	0.000334	"	0.165	93366	78.7	30-130	2.3	30	
Acenaphthene	0.119	0.000304	"	0.165	93366	72.1	30-130	2.5	30	
Pyrene	0.138	0.000643	"	0.165	93366	83.6	30-130	3.6	30	
2-Methylnaphthalene	0.099	0.000645	"	0.165	93366	60	30-130	1.2	30	
Surrogate: Nitrobenzene-d5	46.3		"	0.33	175	46.3	29-110			
Surrogate: 4-Terphenyl-d14	76.9		"	0.33	276	76.9	33-122			
Surrogate: 2-Fluorobiphenyl	55.1		"	0.33	220	55.1	33-115			

MS (L 93366-MS-L617276)		Source: Y205375-08			Prepared: 05/20/2022 Analyzed: 05/23/2022					
Anthracene	0.127	0.000334	mg/Kg	0.166	93366	76.5	30-130			
2-Methylnaphthalene	0.0978	0.000645	"	0.166	93366	58.9	30-130			
Acenaphthene	0.116	0.000304	"	0.166	93366	69.8	30-130			
1-Methylnaphthalene	0.0975	0.000364	"	0.166	93366	58.7	30-130			
Benzo(a)anthracene	0.114	0.000493	"	0.166	93366	68.6	30-130			
Pyrene	0.133	0.000643	"	0.166	93366	80.1	30-130			
Naphthalene	0.0957	0.000484	"	0.166	93366	57.6	30-130			

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope
12-17,13-17,H-17,D-17 Tank Batt

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 L617276 - 3550B

MS (L 93366-MS-L617276)		Source: Y205375-08			Prepared: 05/20/2022 Analyzed: 05/23/2022					
Indeno(1,2,3-cd)pyrene	0.121	0.000627	mg/Kg	0.166	93366	72.8	30-130			
Fluorene	0.112	0.000286	"	0.166	93366	67.4	30-130			
Dibenz(a,h)anthracene	0.116	0.000614	"	0.166	93366	69.8	30-130			
Chrysene	0.112	0.000624	"	0.166	93366	67.4	30-130			
Benzo(k)fluoranthene	0.0911	0.000437	"	0.166	93366	54.8	30-130			
Benzo(b)fluoranthene	0.0894	0.000585	"	0.166	93366	53.8	30-130			
Benzo(a)pyrene	0.116	0.000468	"	0.166	93366	69.8	30-130			
Fluoranthene	0.136	0.000394	"	0.166	93366	81.9	30-130			
Surrogate: 2-Fluorobiphenyl	62.5		"	0.331	220	62.5	33-115			
Surrogate: 4-Terphenyl-d14	84.5		"	0.331	276	84.5	33-122			
Surrogate: Nitrobenzene-d5	51.3		"	0.331	175	51.3	29-110			

LCS (LCS-L617276)		Prepared: 05/20/2022 Analyzed: 05/23/2022								
Anthracene	0.131	0.000334	mg/Kg	0.167		78.4	30-130			
Benzo(a)anthracene	0.125	0.000493	"	0.167		74.8	30-130			
Benzo(a)pyrene	0.126	0.000468	"	0.167		75.4	30-130			
Benzo(b)fluoranthene	0.113	0.000585	"	0.167		67.6	30-130			
Benzo(k)fluoranthene	0.0967	0.000437	"	0.167		57.9	30-130			
Pyrene	0.138	0.000643	"	0.167		82.6	30-130			
Dibenz(a,h)anthracene	0.137	0.000614	"	0.167		82	30-130			
Fluorene	0.11	0.000286	"	0.167		65.8	30-130			
Naphthalene	0.0948	0.000484	"	0.167		56.7	30-130			
Acenaphthene	0.114	0.000304	"	0.167		68.2	30-130			
Chrysene	0.115	0.000624	"	0.167		68.8	30-130			
1-Methylnaphthalene	0.0969	0.000364	"	0.167		58	30-130			
Indeno(1,2,3-cd)pyrene	0.138	0.000627	"	0.167		82.6	30-130			
2-Methylnaphthalene	0.0971	0.000645	"	0.167		58.1	30-130			

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8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope
12-17,13-17,H-17,D-17 Tank Batt

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 L617276 - 3550B

LCS (LCS-L617276)

Prepared: 05/20/2022 Analyzed: 05/23/2022

Fluoranthene	0.138	0.000394	mg/Kg	0.167		82.6	30-130			
Surrogate: Nitrobenzene-d5	52.8		"	0.333		52.8	29-110			
Surrogate: 2-Fluorobiphenyl	63		"	0.333		63	33-115			
Surrogate: 4-Terphenyl-d14	90		"	0.333		90	33-122			

LRB (LRB-L617276)

Prepared: 05/20/2022 Analyzed: 05/23/2022

Benzo(a)pyrene	ND	0.00067	mg/Kg				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Benzo(a)anthracene	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	"				-			
Naphthalene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Surrogate: 2-Fluorobiphenyl	69		"	0.333		69	33-115			
Surrogate: 4-Terphenyl-d14	87.6		"	0.333		87.6	33-122			
Surrogate: Nitrobenzene-d5	61.8		"	0.333		61.8	29-110			

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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
12-17,13-17,H-17,D-17 Tank Batt

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 L617107 - 3050B

MSD (L 93391-MSD-L617107)			Source: 93391			Prepared: 05/19/2022 Analyzed: 05/22/2022				
Silver	0.468	0.0067	mg/Kg	0.469	0.0143	97	75-125	1.5	80	
Barium	18.5	0.042	"	4.69	20.7	NR	75-125	28.3	80	*
Selenium	4.29	0.103	"	4.69	0.186	88	75-125	2	80	
Lead	4.09	0.031	"	2.34	2.66	61	75-125	9.7	80	*
Cadmium	0.49	0.0259	"	0.469	0.0474	94	75-125	3.5	80	
Nickel	3.39	0.0633	"	2.34	1.82	67	75-125	11.4	80	*
Arsenic	2.54	0.0855	"	2.34	0.746	77	75-125	5.7	80	
Copper	3.71	0.0806	"	2.34	2.4	56	75-125	11.1	80	*
Zinc	31.5	0.534	"	23.4	13.1	79	75-125	4.6	80	
MS (L 93391-MS-L617107)			Source: 93391			Prepared: 05/19/2022 Analyzed: 05/22/2022				
Copper	4.15	0.0806	mg/Kg	2.33	2.4	75	75-125			
Selenium	4.38	0.103	"	4.65	0.186	90	75-125			
Nickel	3.8	0.0633	"	2.33	1.82	85	75-125			
Lead	4.51	0.031	"	2.33	2.66	80	75-125			
Cadmium	0.473	0.0259	"	0.465	0.0474	92	75-125			
Arsenic	2.69	0.0855	"	2.33	0.746	84	75-125			
Barium	24.6	0.042	"	4.65	20.7	84	75-125			
Silver	0.461	0.0067	"	0.465	0.0143	96	75-125			
Zinc	33	0.534	"	23.3	13.1	86	75-125			
LCS (LCS-L617107)			Prepared: 05/19/2022 Analyzed: 05/22/2022							
Cadmium	0.437	0.0259	mg/Kg	0.5		87	80-120			
Zinc	22.8	0.534	"	25		91	80-120			
Silver	0.471	0.0067	"	0.5		94	80-120			
Selenium	4.32	0.103	"	5		86	80-120			
Nickel	2.26	0.0633	"	2.5		90	80-120			

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8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope
12-17,13-17,H-17,D-17 Tank Batt

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 L617107 - 3050B

LCS (LCS-L617107)

Prepared: 05/19/2022 Analyzed: 05/22/2022

Copper	2.1	0.0806	mg/Kg	2.5		84	80-120			
Barium	4.92	0.042	"	5		98	80-120			
Arsenic	2.19	0.0855	"	2.5		88	80-120			
Lead	2.33	0.031	"	2.5		93	80-120			

LRB (LRB-L617107)

Prepared: 05/19/2022 Analyzed: 05/22/2022

Zinc	ND	2.5	mg/Kg				-			
Silver	ND	0.25	"				-			
Selenium	ND	0.25	"				-			
Nickel	ND	0.25	"				-			
Lead	ND	0.25	"				-			
Copper	ND	0.25	"				-			
Cadmium	ND	0.25	"				-			
Barium	0.0855	0.25	"				-			J
Arsenic	ND	0.25	"				-			

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8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope
12-17,13-17,H-17,D-17 Tank Batt

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L617730 -										
DUP (L 93360-DUP)		Source: Y205375-02			Prepared: Analyzed: 05/23/2022					
Chromium, Hexavalent	ND	0.25	mg/Kg		93360	-		0	20	
MS (L 93360-MS)		Source: Y205375-02			Prepared: Analyzed: 05/23/2022					
Chromium, Hexavalent	5.89	0.244	mg/Kg	7.88	93360	75	75-125			
LCS (LCS)					Prepared: Analyzed: 05/23/2022					
Chromium, Hexavalent	6.12	0.244	mg/Kg	8		77	75-125			
LRB (LRB)					Prepared: Analyzed: 05/23/2022					
Chromium, Hexavalent	ND	0.5	mg/Kg							

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope
12-17,13-17,H-17,D-17 Tank Batt

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
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Batch L617536 -

DUP (L 93359-DUP)		Source: Y205375-01			Prepared: Analyzed: 05/22/2022					
Chromium, Hexavalent	ND	0.249	mg/Kg		93359	-		0	20	
MS (L 93359-MS)		Source: Y205375-01			Prepared: Analyzed: 05/22/2022					
Chromium, Hexavalent	5.93	0.244	mg/Kg	7.9	93359	75	75-125			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Martin C Eckert III

Project Number: [none]

Project: Bonanza - Antelope
12-17,13-17,H-17,D-17 Tank Batt

Notes and Definitions

U Sample is Non-Detect.

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.



Jen Pellegrini For Noelle Doyle Mathis, President

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May 26, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

**Project Name - Bonanza - Antelope 13-17/3/GP
Flowline**

Project Number - [none]

Attached are your analytical results for Bonanza - Antelope 13-17/3/GP Flowline received by Origins Laboratory, Inc. May 16, 2022. This project is associated with Origins project number Y205378-01.

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 13-17/3/GP Flowline

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL-SS-01@3'	Y205378-01	Soil	May 13, 2022 12:50	05/16/2022 16:05
FL-SS-04@3'	Y205378-02	Soil	May 13, 2022 13:05	05/16/2022 16:05

Origins Laboratory, Inc.



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

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope 13-17/3/GP Flowline

Origins Laboratory

Sample Receipt Checklist

Origins Work Order: Y205378

Client: Eagle

Client Project ID: Antelope 13-17/3/GP Flow

Checklist Completed by: JA

Date/time completed: 5/16/22

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

Airbill #: N/A

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

Cooler Number/Temperature: 1, 3.2 °C _____ °C _____ °C (Describe)

Thermometer ID: T004

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

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

Reviewed by: JB (Project Manager)

Date/Time Reviewed: 5-17-22

Origins Laboratory, Inc.

J. Bynon

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 13-17/3/GP Flowline

FL-SS-01@3'

5/13/2022 12:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205378-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0995	mg/L	1	B2E1706	05/17/2022	05/18/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E1701	05/17/2022	05/18/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	89.7 %	50-150	"	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E1620	05/16/2022	05/17/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	118 %	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 13-17/3/GP Flowline

FL-SS-01@3'

5/13/2022 12:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205378-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	101 %	70-130	B2E16 20	05/16/2022	05/17/2022
Surrogate: 4-Bromofluorobenzene	106 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	05/17/2022	05/18/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	0.461	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L617275	05/20/2022	05/20/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope 13-17/3/GP Flowline

FL-SS-01@3'

5/13/2022 12:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y205378-01 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L617275	05/20/2022	05/20/2022
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	53.3 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	86.7 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	53.6 %	29-110	"	"	"

pH in Soil by 9045D

pH	7.71	pH Units	1	B2E1708	05/17/2022	05/18/2022
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SAR by 20B Saturated Paste

SAR	0.784	SAR	1	B2E1707	05/17/2022	05/18/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.169	0.00500	mmhos/cm	1	B2E1708	05/17/2022	05/18/2022
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Total Metals by 6020B

Arsenic	1.53	0.0855	0.25	mg/Kg	5	L617107	05/19/2022	05/22/2022
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Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope 13-17/3/GP Flowline

FL-SS-01@3'

5/13/2022 12:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y205378-01 (Soil)

Total Metals by 6020B

Barium	29.5	0.042	0.25	mg/Kg	5	L617107	05/19/2022	05/22/2022	
Cadmium	0.0373	0.0259	0.25	"	"	"	"	"	J
Copper	1.57	0.0806	0.25	"	"	"	"	"	
Lead	2.66	0.031	0.25	"	"	"	"	"	
Nickel	2.02	0.0633	0.25	"	"	"	"	"	
Selenium	0.105	0.103	0.25	"	"	"	"	"	J
Silver	0.008	0.0067	0.25	"	"	"	"	"	J
Zinc	10.1	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L617535	05/16/2022	05/22/2022	
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Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope 13-17/3/GP Flowline

FL-SS-04@3'

5/13/2022 1:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205378-02 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0974	mg/L	1	B2E1709	05/17/2022	05/18/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E1701	05/17/2022	05/18/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	74.0 %	50-150	"	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E1620	05/16/2022	05/17/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	118 %	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 13-17/3/GP Flowline

FL-SS-04@3'

5/13/2022 1:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205378-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	102 %		70-130			B2E16 20	05/16/2022	05/17/2022
Surrogate: 4-Bromofluorobenzene	104 %		70-130			"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	05/17/2022	05/18/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L617275	05/20/2022	05/20/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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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 13-17/3/GP Flowline

FL-SS-04@3'

5/13/2022 1:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y205378-02 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L617275	05/20/2022	05/20/2022
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	66.2 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	91.8 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	60.7 %	29-110	"	"	"

pH in Soil by 9045D

pH	6.91	pH Units	1	B2E1708	05/17/2022	05/18/2022
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SAR by 20B Saturated Paste

SAR	0.844	SAR	1	B2E1707	05/17/2022	05/18/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.154	0.00500	mmhos/cm	1	B2E1708	05/17/2022	05/18/2022
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Total Metals by 6020B

Arsenic	2.54	0.0855	0.25	mg/Kg	5	L617107	05/19/2022	05/22/2022
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Origins Laboratory, Inc.



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

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope 13-17/3/GP Flowline

FL-SS-04@3'

5/13/2022 1:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y205378-02 (Soil)

Total Metals by 6020B

Barium	39.2	0.042	0.25	mg/Kg	5	L617107	05/19/2022	05/22/2022	
Cadmium	0.0539	0.0259	0.25	"	"	"	"	"	J
Copper	2.19	0.0806	0.25	"	"	"	"	"	
Lead	6.58	0.031	0.25	"	"	"	"	"	
Nickel	2.91	0.0633	0.25	"	"	"	"	"	
Selenium	0.171	0.103	0.25	"	"	"	"	"	J
Silver	0.0087	0.0067	0.25	"	"	"	"	"	J
Zinc	13.8	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L617535	05/16/2022	05/22/2022	
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Origins Laboratory, Inc.



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

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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope 13-17/3/GP Flowline

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 B2E1620 - EPA 5030 (soil)										
Blank (B2E1620-BLK1)					Prepared: 05/16/2022 Analyzed: 05/17/2022					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.0100	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		114	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	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 13-17/3/GP Flowline

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 B2E1620 - EPA 5030 (soil)

LCS (B2E1620-BS1)

Prepared: 05/16/2022 Analyzed: 05/17/2022

1,2,4-Trimethylbenzene	0.103	0.00200	mg/kg	0.100		103	70-130			
1,3,5-Trimethylbenzene	0.105	0.00200	"	0.100		105	70-130			
Benzene	0.101	0.00200	"	0.100		101	70-130			
Ethylbenzene	0.108	0.00200	"	0.100		108	70-130			
Naphthalene	0.0972	0.0100	"	0.100		97.2	70-130			
Toluene	0.109	0.00200	"	0.100		109	70-130			
o-Xylene	0.106	0.00200	"	0.100		106	70-130			
m,p-Xylene	0.213	0.00400	"	0.200		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		109	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		106	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 13-17/3/GP Flowline

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 B2E1620 - EPA 5030 (soil)										
Matrix Spike (B2E1620-MS1)		Source: Y205377-01			Prepared: 05/16/2022 Analyzed: 05/17/2022					
1,2,4-Trimethylbenzene	0.0901	0.00200	mg/kg	0.100	ND	90.1	70-130			
1,3,5-Trimethylbenzene	0.0916	0.00200	"	0.100	ND	91.6	70-130			
Benzene	0.0941	0.00200	"	0.100	ND	94.1	70-130			
Ethylbenzene	0.0987	0.00200	"	0.100	ND	98.7	70-130			
Naphthalene	0.0855	0.0100	"	0.100	ND	85.5	70-130			
Toluene	0.0990	0.00200	"	0.100	ND	99.0	70-130			
o-Xylene	0.0972	0.00200	"	0.100	ND	97.2	70-130			
m,p-Xylene	0.195	0.00400	"	0.200	ND	97.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		118	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		107	70-130			

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Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope 13-17/3/GP Flowline

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 B2E1620 - EPA 5030 (soil)										
Matrix Spike Dup (B2E1620-MSD1)		Source: Y205377-01			Prepared: 05/16/2022 Analyzed: 05/17/2022					
1,2,4-Trimethylbenzene	0.0937	0.00200	mg/kg	0.100	ND	93.7	70-130	3.85	20	
1,3,5-Trimethylbenzene	0.0946	0.00200	"	0.100	ND	94.6	70-130	3.20	20	
Benzene	0.0962	0.00200	"	0.100	ND	96.2	70-130	2.25	20	
Ethylbenzene	0.0981	0.00200	"	0.100	ND	98.1	70-130	0.569	20	
Naphthalene	0.0941	0.0100	"	0.100	ND	94.1	70-130	9.56	20	
Toluene	0.101	0.00200	"	0.100	ND	101	70-130	1.98	20	
o-Xylene	0.0976	0.00200	"	0.100	ND	97.6	70-130	0.370	20	
m,p-Xylene	0.195	0.00400	"	0.200	ND	97.5	70-130	0.0616	20	
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		119	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

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Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope 13-17/3/GP Flowline

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 B2E1701 - EPA 3580										
Blank (B2E1701-BLK1)					Prepared: 05/17/2022 Analyzed: 05/18/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	24		"	24.9		95.6	50-150			

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Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope 13-17/3/GP Flowline

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 B2E1701 - EPA 3580

LCS (B2E1701-BS1)

Prepared: 05/17/2022 Analyzed: 05/18/2022

Diesel (C10-C28)	948	50.0	mg/kg	1000		94.8	70-130			
Residual Range Organics (C28-C40)	1160	200	"	1000		116	70-130			
Surrogate: o-Terphenyl	51		"	49.8		102	50-150			

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Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope 13-17/3/GP Flowline


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 B2E1701 - EPA 3580

Matrix Spike (B2E1701-MS1)		Source: Y205376-10			Prepared: 05/17/2022 Analyzed: 05/18/2022					
Diesel (C10-C28)	921	50.0	mg/kg	1000	ND	92.1	70-130			
Residual Range Organics (C28-C40)	1200	200	"	1000	ND	120	70-130			
Surrogate: o-Terphenyl	59		"	49.8		119	50-150			

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Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope 13-17/3/GP Flowline


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 B2E1701 - EPA 3580

Matrix Spike Dup (B2E1701-MSD1)		Source: Y205376-10			Prepared: 05/17/2022 Analyzed: 05/18/2022					
Diesel (C10-C28)	824	50.0	mg/kg	1000	ND	82.4	70-130	11.1	35	
Residual Range Organics (C28-C40)	1020	200	"	1000	ND	102	70-130	15.8	35	
Surrogate: o-Terphenyl	40		"	49.8		79.5	50-150			

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Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope 13-17/3/GP Flowline

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 B2E1708 - NO PREP

Blank (B2E1708-BLK1)

Prepared: 05/17/2022 Analyzed: 05/18/2022

pH	0.00		pH Units
Specific Conductance (EC)	ND	0.0300	mmhos/cm

Duplicate (B2E1708-DUP1)

Source: Y205376-01

Prepared: 05/17/2022 Analyzed: 05/18/2022

Specific Conductance (EC)	0.512	0.0300	mmhos/cm	0.447	13.4	25
pH	8.19		pH Units	8.16	0.367	25

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Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope 13-17/3/GP Flowline

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 L617275 - 3550B

MSD (L 94277-MSD-L617275)		Source: 94277			Prepared: 05/20/2022 Analyzed: 05/20/2022					
Anthracene	0.00992	0.000334	mg/Kg	0.164	94277	6	30-130	6.6	30	*
Indeno(1,2,3-cd)pyrene	0.00774	0.000627	"	0.164	0.00236	3.2	30-130	15	30	*
Fluorene	0.0101	0.000286	"	0.164	94277	6.1	30-130	2.9	30	*
Fluoranthene	0.011	0.000394	"	0.164	94277	6.7	30-130	5.3	30	*
Dibenz(a,h)anthracene	0.00691	0.000614	"	0.164	94277	4.2	30-130	16.1	30	*
Chrysene	0.0107	0.000624	"	0.164	94277	6.5	30-130	10.6	30	*
Benzo(k)fluoranthene	0.00921	0.000437	"	0.164	94277	5.6	30-130	14	30	*
Benzo(a)pyrene	0.0103	0.000468	"	0.164	94277	6.2	30-130	9.2	30	*
Benzo(a)anthracene	0.0116	0.000493	"	0.164	94277	7	30-130	5.8	30	*
2-Methylnaphthalene	0.00923	0.000645	"	0.164	94277	5.6	30-130	2.8	30	*
1-Methylnaphthalene	0.00915	0.000364	"	0.164	94277	5.5	30-130	2.3	30	*
Naphthalene	0.00879	0.000484	"	0.164	94277	5.3	30-130	2.4	30	*
Benzo(b)fluoranthene	0.00878	0.000585	"	0.164	94277	5.3	30-130	10.5	30	*
Pyrene	0.011	0.000643	"	0.164	94277	6.7	30-130	7	30	*
Acenaphthene	0.00943	0.000304	"	0.164	94277	5.7	30-130	1.7	30	*
Surrogate: 4-Terphenyl-d14	8.5		"	0.329	329	8.5	33-122			*
Surrogate: 2-Fluorobiphenyl	5.8		"	0.329	229	5.8	33-115			*
Surrogate: Nitrobenzene-d5	5.5		"	0.329	216	5.5	29-110			*

MS (L 94277-MS-L617275)		Source: 94277			Prepared: 05/20/2022 Analyzed: 05/20/2022					
Pyrene	0.0118	0.000643	mg/Kg	0.166	94277	7.1	30-130			*
Naphthalene	0.00858	0.000484	"	0.166	94277	5.1	30-130			*
Indeno(1,2,3-cd)pyrene	0.009	0.000627	"	0.166	94277	5.4	30-130			*
Fluorene	0.0104	0.000286	"	0.166	94277	6.2	30-130			*
Fluoranthene	0.0116	0.000394	"	0.166	94277	6.9	30-130			*
Dibenz(a,h)anthracene	0.00812	0.000614	"	0.166	94277	4.8	30-130			*
Chrysene	0.0119	0.000624	"	0.166	94277	7.1	30-130			*

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Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope 13-17/3/GP Flowline

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 L617275 - 3550B

MS (L 94277-MS-L617275)		Source: 94277			Prepared: 05/20/2022 Analyzed: 05/20/2022					
Benzo(k)fluoranthene	0.0106	0.000437	mg/Kg	0.166	94277	6.3	30-130			*
2-Methylnaphthalene	0.00897	0.000645	"	0.166	94277	5.4	30-130			*
1-Methylnaphthalene	0.00894	0.000364	"	0.166	94277	5.3	30-130			*
Benzo(a)pyrene	0.0113	0.000468	"	0.166	94277	6.8	30-130			*
Benzo(a)anthracene	0.0123	0.000493	"	0.166	94277	7.4	30-130			*
Anthracene	0.0106	0.000334	"	0.166	94277	6.3	30-130			*
Benzo(b)fluoranthene	0.00976	0.000585	"	0.166	94277	5.8	30-130			*
Acenaphthene	0.0096	0.000304	"	0.166	94277	5.7	30-130			*
Surrogate: Nitrobenzene-d5	5.1		"	0.331	216	5.1	29-110			*
Surrogate: 2-Fluorobiphenyl	5.5		"	0.331	229	5.5	33-115			*
Surrogate: 4-Terphenyl-d14	8.5		"	0.331	329	8.5	33-122			*

LCS (LCS-L617275)		Prepared: 05/20/2022 Analyzed: 05/20/2022								
Benzo(a)pyrene	0.131	0.000468	mg/Kg	0.167		78.4	30-130			
Benzo(a)anthracene	0.132	0.000493	"	0.167		79	30-130			
Anthracene	0.126	0.000334	"	0.167		75.4	30-130			
Acenaphthene	0.119	0.000304	"	0.167		71.2	30-130			
2-Methylnaphthalene	0.111	0.000645	"	0.167		66.4	30-130			
Chrysene	0.125	0.000624	"	0.167		74.8	30-130			
1-Methylnaphthalene	0.112	0.000364	"	0.167		67	30-130			
Pyrene	0.131	0.000643	"	0.167		78.4	30-130			
Dibenz(a,h)anthracene	0.14	0.000614	"	0.167		83.8	30-130			
Fluoranthene	0.131	0.000394	"	0.167		78.4	30-130			
Fluorene	0.127	0.000286	"	0.167		76	30-130			
Indeno(1,2,3-cd)pyrene	0.159	0.000627	"	0.167		95.2	30-130			
Naphthalene	0.108	0.000484	"	0.167		64.6	30-130			
Benzo(k)fluoranthene	0.118	0.000437	"	0.167		70.6	30-130			

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope 13-17/3/GP Flowline

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 L617275 - 3550B

LCS (LCS-L617275)

Prepared: 05/20/2022 Analyzed: 05/20/2022

Benzo(b)fluoranthene	0.13	0.000585	mg/Kg	0.167		77.8	30-130			
Surrogate: 2-Fluorobiphenyl	81.6		"	0.333		81.6	33-115			
Surrogate: 4-Terphenyl-d14	114		"	0.333		114	33-122			
Surrogate: Nitrobenzene-d5	68.4		"	0.333		68.4	29-110			

LRB (LRB-L617275)

Prepared: 05/20/2022 Analyzed: 05/20/2022

Benzo(b)fluoranthene	ND	0.00067	mg/Kg				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Surrogate: 2-Fluorobiphenyl	72.6		"	0.333		72.6	33-115			
Surrogate: 4-Terphenyl-d14	99.6		"	0.333		99.6	33-122			
Surrogate: Nitrobenzene-d5	64.8		"	0.333		64.8	29-110			

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Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope 13-17/3/GP Flowline

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 L617107 - 3050B

MSD (L 93391-MSD-L617107)			Source: 93391			Prepared: 05/19/2022 Analyzed: 05/22/2022				
Nickel	3.39	0.0633	mg/Kg	2.34	1.82	67	75-125	11.4	80	*
Zinc	31.5	0.534	"	23.4	13.1	79	75-125	4.6	80	
Selenium	4.29	0.103	"	4.69	0.186	88	75-125	2	80	
Copper	3.71	0.0806	"	2.34	2.4	56	75-125	11.1	80	*
Cadmium	0.49	0.0259	"	0.469	0.0474	94	75-125	3.5	80	
Barium	18.5	0.042	"	4.69	20.7	NR	75-125	28.3	80	*
Arsenic	2.54	0.0855	"	2.34	0.746	77	75-125	5.7	80	
Lead	4.09	0.031	"	2.34	2.66	61	75-125	9.7	80	*
Silver	0.468	0.0067	"	0.469	0.0143	97	75-125	1.5	80	

MS (L 93391-MS-L617107)			Source: 93391			Prepared: 05/19/2022 Analyzed: 05/22/2022				
Cadmium	0.473	0.0259	mg/Kg	0.465	0.0474	92	75-125			
Zinc	33	0.534	"	23.3	13.1	86	75-125			
Silver	0.461	0.0067	"	0.465	0.0143	96	75-125			
Selenium	4.38	0.103	"	4.65	0.186	90	75-125			
Nickel	3.8	0.0633	"	2.33	1.82	85	75-125			
Copper	4.15	0.0806	"	2.33	2.4	75	75-125			
Barium	24.6	0.042	"	4.65	20.7	84	75-125			
Arsenic	2.69	0.0855	"	2.33	0.746	84	75-125			
Lead	4.51	0.031	"	2.33	2.66	80	75-125			

LCS (LCS-L617107)			Prepared: 05/19/2022 Analyzed: 05/22/2022							
Selenium	4.32	0.103	mg/Kg	5		86	80-120			
Cadmium	0.437	0.0259	"	0.5		87	80-120			
Copper	2.1	0.0806	"	2.5		84	80-120			
Lead	2.33	0.031	"	2.5		93	80-120			
Nickel	2.26	0.0633	"	2.5		90	80-120			

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Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope 13-17/3/GP Flowline

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 L617107 - 3050B

LCS (LCS-L617107)

Prepared: 05/19/2022 Analyzed: 05/22/2022

Zinc	22.8	0.534	mg/Kg	25		91	80-120			
Arsenic	2.19	0.0855	"	2.5		88	80-120			
Silver	0.471	0.0067	"	0.5		94	80-120			
Barium	4.92	0.042	"	5		98	80-120			

LRB (LRB-L617107)

Prepared: 05/19/2022 Analyzed: 05/22/2022

Barium	0.0855	0.25	mg/Kg				-			J
Arsenic	ND	0.25	"				-			
Cadmium	ND	0.25	"				-			
Copper	ND	0.25	"				-			
Lead	ND	0.25	"				-			
Nickel	ND	0.25	"				-			
Zinc	ND	2.5	"				-			
Silver	ND	0.25	"				-			
Selenium	ND	0.25	"				-			

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Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope 13-17/3/GP Flowline

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 L617535 -										
DUP (L 93320-DUP)	Source: 93320				Prepared: Analyzed: 05/22/2022					
Chromium, Hexavalent	ND	0.247	mg/Kg		93320	-		0	20	
MS (L 93320-MS)	Source: 93320				Prepared: Analyzed: 05/22/2022					
Chromium, Hexavalent	5.72	1.24	mg/Kg	8.12	93320	70	75-125			*
LCS (LCS)					Prepared: Analyzed: 05/22/2022					
Chromium, Hexavalent	7.22	0.244	mg/Kg	8		90	75-125			
LRB (LRB)					Prepared: Analyzed: 05/22/2022					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



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

Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Martin C Eckert III

Project Number: [none]

Project: Bonanza - Antelope 13-17/3/GP Flowline

Notes and Definitions

U Sample is Non-Detect.

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.



May 26, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

**Project Name - Bonanza - Antelope
12-17,13-17,H-17,D-17 Tank Batt**

Project Number - [none]

Attached are your analytical results for Bonanza - Antelope 12-17,13-17,H-17,D-17 Tank Batt received by Origins Laboratory, Inc. May 13, 2022. This project is associated with Origins project number Y205379-01.

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

12-17,13-17,H-17,D-17 Tank Batt

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Background-01@3-4'	Y205379-01	Soil	May 13, 2022 11:40	05/13/2022 16:05
Background-02@3-4'	Y205379-02	Soil	May 13, 2022 11:50	05/13/2022 16:05

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
12-17, 13-17, H-17, D-17 Tank Batt

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y205379 Client: Eagle
Client Project ID: Antelope 12-17, 13-17, 14-17, 1

Checklist Completed by: SG Shipped Via: HD
Date/time completed: 5/16/22 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
Airbill #: N/A

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☐ Water ☐ Other: _____
Cooler Number/Temperature: 1 / 3.2 °C _____ °C _____ °C _____ °C (Describe)
Thermometer ID: T004

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

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

Reviewed by: AB (Project Manager) Date/Time Reviewed: 5-17-22

Origins Laboratory, Inc.

J. Bynon

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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
12-17,13-17,H-17,D-17 Tank Batt

Background-01@3-4'
5/13/2022 11:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205379-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0973	mg/L	1	B2E1709	05/17/2022	05/18/2022
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Metals by Saturated Paste by EPA 6010

Calcium	3.66	0.499	meq/L	10	[CALC]	05/17/2022	05/18/2022
Magnesium	1.14	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.30		pH Units	1	B2E1708	05/17/2022	05/18/2022
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SAR by 20B Saturated Paste

SAR	0.256		SAR	1	B2E1707	05/17/2022	05/18/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.568	0.00500	mmhos/cm	1	B2E1708	05/17/2022	05/18/2022
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Total Metals by 6020B

Arsenic	2.31	0.0855	0.25	mg/Kg	5	L617428	05/20/2022	05/24/2022
Barium	32.7	0.042	0.25	"	"	"	"	"
Cadmium	0.0646	0.0259	0.25	"	"	"	"	"
Copper	2.56	0.0806	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
12-17,13-17,H-17,D-17 Tank Batt

Background-01@3-4'

5/13/2022 11:40:00AM

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

Y205379-01 (Soil)

Total Metals by 6020B

Lead	3.5	0.031	0.25	mg/Kg	5	L617428	05/20/2022	05/24/2022	
Nickel	2.82	0.0633	0.25	"	"	"	"	"	
Selenium	0.2	0.103	0.25	"	"	"	"	"	J
Silver	0.009	0.0067	0.25	"	"	"	"	"	J
Zinc	15.7	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.488	1	mg/Kg	2	L617535	05/03/2022	05/22/2022	
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Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope
12-17,13-17,H-17,D-17 Tank Batt

Background-02@3-4'
5/13/2022 11:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205379-02 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0994	mg/L	1	B2E1709	05/17/2022	05/18/2022
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Metals by Saturated Paste by EPA 6010

Calcium	3.92	0.499	meq/L	10	[CALC]	05/17/2022	05/18/2022
Magnesium	1.16	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.26		pH Units	1	B2E1708	05/17/2022	05/18/2022
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SAR by 20B Saturated Paste

SAR	0.246		SAR	1	B2E1707	05/17/2022	05/18/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.540	0.00500	mmhos/cm	1	B2E1708	05/17/2022	05/18/2022
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Total Metals by 6020B

Arsenic	3.09	0.0855	0.25	mg/Kg	5	L617428	05/20/2022	05/24/2022
Barium	41.9	0.042	0.25	"	"	"	"	"
Cadmium	0.0562	0.0259	0.25	"	"	"	"	"
Copper	2.38	0.0806	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
12-17,13-17,H-17,D-17 Tank Batt

Background-02@3-4'
5/13/2022 11:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y205379-02 (Soil)

Total Metals by 6020B

Lead	5.3	0.031	0.25	mg/Kg	5	L617428	05/20/2022	05/24/2022	
Nickel	2.54	0.0633	0.25	"	"	"	"	"	
Selenium	0.151	0.103	0.25	"	"	"	"	"	J
Silver	0.0083	0.0067	0.25	"	"	"	"	"	J
Zinc	13.3	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L617535	05/03/2022	05/22/2022	
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Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Antelope
12-17,13-17,H-17,D-17 Tank Batt

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2E1708 - NO PREP										
Blank (B2E1708-BLK1)					Prepared: 05/17/2022 Analyzed: 05/18/2022					
pH	0.00		pH Units							
Specific Conductance (EC)	ND	0.0300	mmhos/cm							
Duplicate (B2E1708-DUP1)					Source: Y205376-01 Prepared: 05/17/2022 Analyzed: 05/18/2022					
pH	8.19		pH Units		8.16			0.367	25	
Specific Conductance (EC)	0.512	0.0300	mmhos/cm		0.447			13.4	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
12-17,13-17,H-17,D-17 Tank Batt

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 L617428 - 3050B										
MSD (L 93449-MSD-L617428)			Source: 93449		Prepared: 05/20/2022 Analyzed: 05/24/2022					
Selenium	5.7	0.103	mg/Kg	4.73	1.63	86	75-125	10.9	80	
Arsenic	40.7	0.342	"	2.36	43.4	NR	75-125	22.1	80	*
Silver	0.62	0.0067	"	0.473	0.175	94	75-125	3.7	80	
Nickel	13.4	0.0633	"	2.36	12.1	55	75-125	0.7	80	*
Lead	16.4	0.031	"	2.36	18.6	NR	75-125	3.5	80	*
Copper	21	0.0806	"	2.36	19.8	51	75-125	3.8	80	*
Cadmium	0.739	0.0259	"	0.473	0.317	89	75-125	8.9	80	
Barium	34.2	0.042	"	4.73	40.4	NR	75-125	13.3	80	*
Zinc	62.2	0.534	"	23.6	53	39	75-125	5.4	80	*
MS (L 93449-MS-L617428)			Source: 93449		Prepared: 05/20/2022 Analyzed: 05/24/2022					
Zinc	65.7	0.534	mg/Kg	24.8	53	51	75-125			*
Silver	0.597	0.0067	"	0.497	0.175	85	75-125			
Arsenic	32.6	0.342	"	2.48	43.4	NR	75-125			*
Barium	39.1	0.042	"	4.97	40.4	NR	75-125			*
Cadmium	0.676	0.0259	"	0.497	0.317	72	75-125			*
Copper	20.2	0.0806	"	2.48	19.8	16	75-125			*
Lead	17	0.031	"	2.48	18.6	NR	75-125			*
Nickel	13.5	0.0633	"	2.48	12.1	56	75-125			*
Selenium	5.11	0.103	"	4.97	1.63	70	75-125			*
LCS (LCS-L617428)			Prepared: 05/20/2022 Analyzed: 05/24/2022							
Barium	5.24	0.042	mg/Kg	5		105	80-120			
Cadmium	0.508	0.0259	"	0.5		102	80-120			
Copper	2.48	0.0806	"	2.5		99	80-120			
Lead	2.56	0.031	"	2.5		102	80-120			
Nickel	2.61	0.0633	"	2.5		104	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
12-17,13-17,H-17,D-17 Tank Batt

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L617428 - 3050B

LCS (LCS-L617428)

Prepared: 05/20/2022 Analyzed: 05/24/2022

Selenium	5.26	0.103	mg/Kg	5		105	80-120			
Silver	0.51	0.0067	"	0.5		102	80-120			
Zinc	25.8	0.534	"	25		103	80-120			
Arsenic	2.48	0.0855	"	2.5		99	80-120			

LRB (LRB-L617428)

Prepared: 05/20/2022 Analyzed: 05/24/2022

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

Origins Laboratory, Inc.



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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
12-17,13-17,H-17,D-17 Tank Batt

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L617535 -										
DUP (L 93320-DUP)	Source: 93320				Prepared: Analyzed: 05/22/2022					
Chromium, Hexavalent	ND	0.247	mg/Kg		93320	-		0	20	
MS (L 93320-MS)	Source: 93320				Prepared: Analyzed: 05/22/2022					
Chromium, Hexavalent	5.72	1.24	mg/Kg	8.12	93320	70	75-125			*
LCS (LCS)					Prepared: Analyzed: 05/22/2022					
Chromium, Hexavalent	7.22	0.244	mg/Kg	8		90	75-125			
LRB (LRB)					Prepared: Analyzed: 05/22/2022					
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
12-17,13-17,H-17,D-17 Tank Batt

Notes and Definitions

J Estimated Value. Analyte below reported quantitation limit.

* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



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