

Flowline Closure Checklist

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

Additional Attachments:	Tank Battery Closure 4-20-22	Wellhead Closure 5-3-22	Pit Closure -	Partially Buried Vault Closure 4-20-22
Site Name & COGCC Facility Number: <i>Lathan 21-1</i>		Date: <i>4-20-22</i>		Remediation Project #: <i>22762</i>
Associated Wells: <i>2</i> <i>05-123-35857</i>		Age of Site: <i>years</i>		Number of Photos Attached: <i>4</i>

Starting point: (GPS coordinates and descriptions) *At Sep. 40.346274 / -104.386980*

End point: (GPS coordinates and descriptions) *At tie-in: 40.346618 / -104.388006*

USCS Soil Type: *SM* Estimated Depth to Groundwater: *>20'*

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

Flowlines

Flowline type	<i>Natural Gas</i>			
Depth	<i>~4'</i>			
Age	<i>years</i>			
Length	<i>~400'</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>5.3</i>	<i>2.7</i>	<i>2.6</i>	<i>4.6</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 photo log</i>			

Other observations regarding on location flowlines:

Summary

Was impacted soil identified?
 No Yes - less than 10 cubic yards Yes - more than 10 cubic yards

Total number of samples field screened: *4* Total number of samples collected: *4*

Highest PID Reading: *5.3* Total number of samples submitted to lab for analysis: *2*

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? *N/A*

Was groundwater encountered during the investigation?
 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:

Third Party									
Removal Date									
Sample taken?									
PID Readings									
Photo Number(s)									

Other Facility Equipment

Equipment type	VOC Burner	ECD RO tank			
Equipment Condition	Good	Good			
Age	years	years			
Soil impacts	None	None			
PID Readings	0.3	1.6			
Sample taken?	TB-SS-07	TB-SS-05			
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:	7
Highest PID Reading:	2.7
Total number of samples collected:	7
Total number of samples submitted to lab for analysis:	5
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?	N/A
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	4-3-22	Flowline Closure	4-20-22	Tank Battery Closure	4-20-22		
Site Name & COGCC Facility Number: <i>Latham 21-1 - 429652</i>		Date: <i>4-20-22</i>		Remediation Project #: <i>22762</i>		Associated Wells: <i>2</i>		Age of Site: <i>years</i>		Number of Photos Attached: <i>1</i>	
Location: (GPS coordinates of vault or southeastern tank berm for multiple)		<i>10.346033 / -104.886997</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: *>20'*

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>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>1.5</i>	<i>0.1</i>	<i>0.1</i>	<i>0.2</i>	<i>0.9</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 photolog</i>									

Other observations regarding partially buried vessels:

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>1.5</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? 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:	

Wellhead Closure Checklist

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

Additional attachments (optional):	Pit Closure —	Tank Battery Closure 4-20-22	Flowline Closure 4-20-22	Partially Buried Vault Closure 4-20-22
Site Name & COGCC Facility Number: <i>Latham 21-1</i>	Date: <i>5-3-22</i>			Remediation Project #: <i>22762</i>
Associated Wells: <i>2</i> <i>05-123-35857</i>	Age of Site: <i>years</i>			Number of Photos Attached: <i>1</i>
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple) <i>40.346030 / -104.387130</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: *>20'*

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

Wellhead(s)						
Well API	<i>05-123-35857</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 (staining, odor)	<i>Good - no staining, no odor</i>					
PID Readings	<i>2.7</i>	<i>3.1</i>	<i>4.7</i>	<i>5.1</i>	<i>5.4</i>	
Sample taken? Location/Sample ID#	<i>WH-SS-01</i>	<i>WH-SS-02</i>	<i>WH-SS-03</i>	<i>WH-SS-04</i>	<i>WH-F8-01</i>	
Photo Number(s)	<i>See photolog</i>					

Other observations regarding wellheads:

Summary

Was impacted soil identified?		Yes - less than 10 cubic yards		Yes - more than 10 cubic yards	
<i>No</i>					
Total number of samples field screened: <i>5</i>			Total number of samples collected: <i>5</i>		
Highest PID Reading: <i>5.4</i>			Total number of samples submitted to lab for analysis: <i>1</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?					
<i>No</i>		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:					



FIGURES

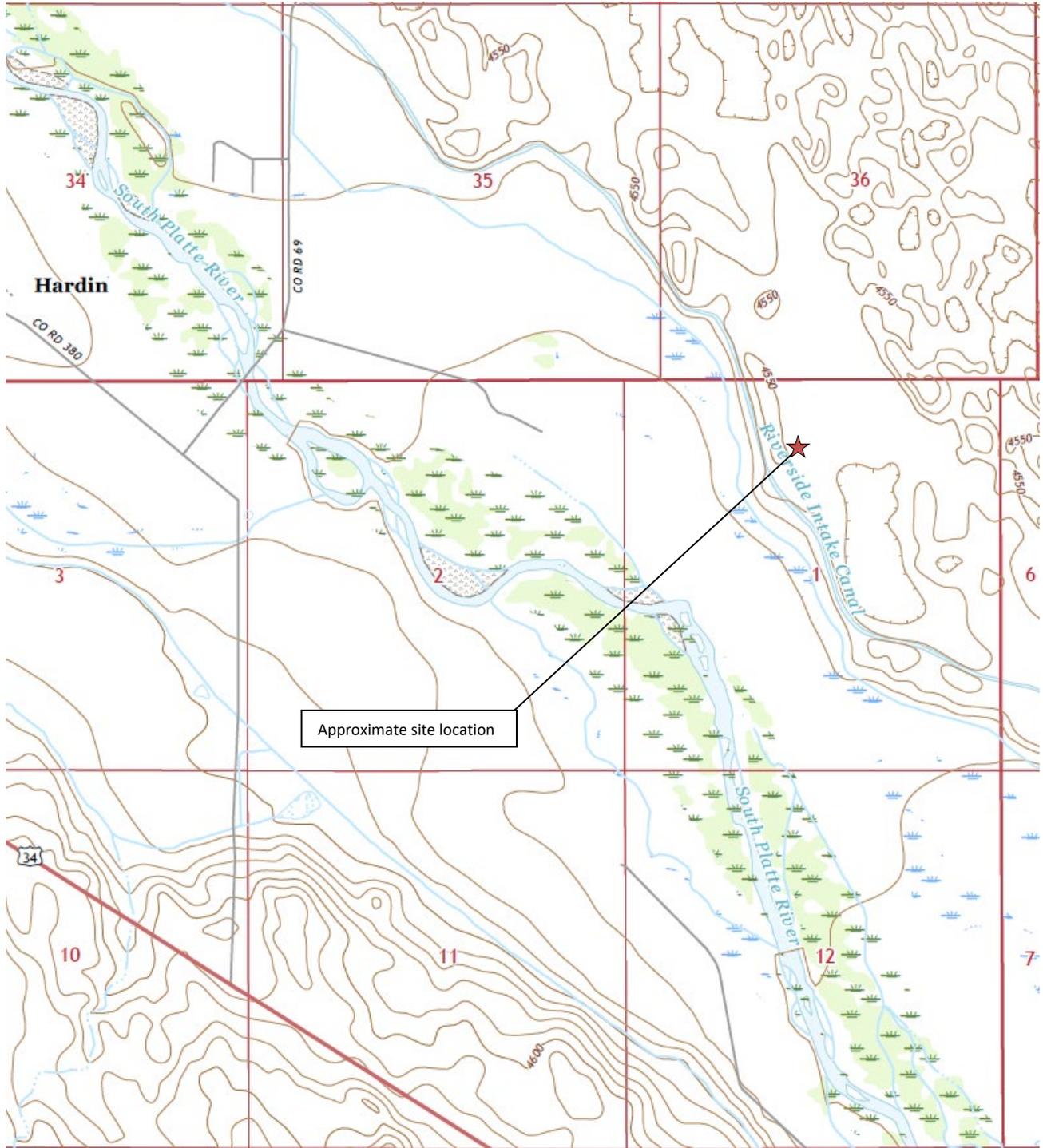
Figure 1: Topographic Site Location Map

Figure 2: Aerial Site Location Map

Figure 3: Soil Analytical Map

Figure 4: Polycyclic Aromatic Hydrocarbons Map

Figure 5: Metals in Soil Map



Topographic Site Location Map
 Latham 21-1
 Closure Assessment
 40.346020 / -104.387320
 NE ¼ NW ¼ SEC.1 T4N R63W 6PM
 Weld County, Colorado
 Location ID 429652
 API # 05-123-35857
 Remediation # 22762



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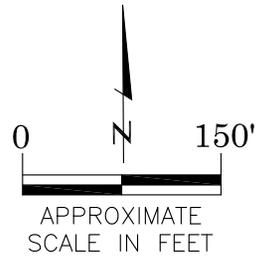
Source: USGS 7.5 Minute Topographic Map, Hardin, CO Quadrangle 2019

Figure 1



LEGEND

- FORMER LATHAM 21-1 FACILITY BOUNDARIES
- APPROXIMATE SEPARATOR CONTAINMENT AREA (DECOMMISSIONED)
- APPROXIMATE VAULT LOCATION (REMOVED)
- FORMER LATHAM 21-1 WELLHEAD (PLUGGED AND ABANDONED)
- FORMER GASLINE LOCATION (REMOVED)

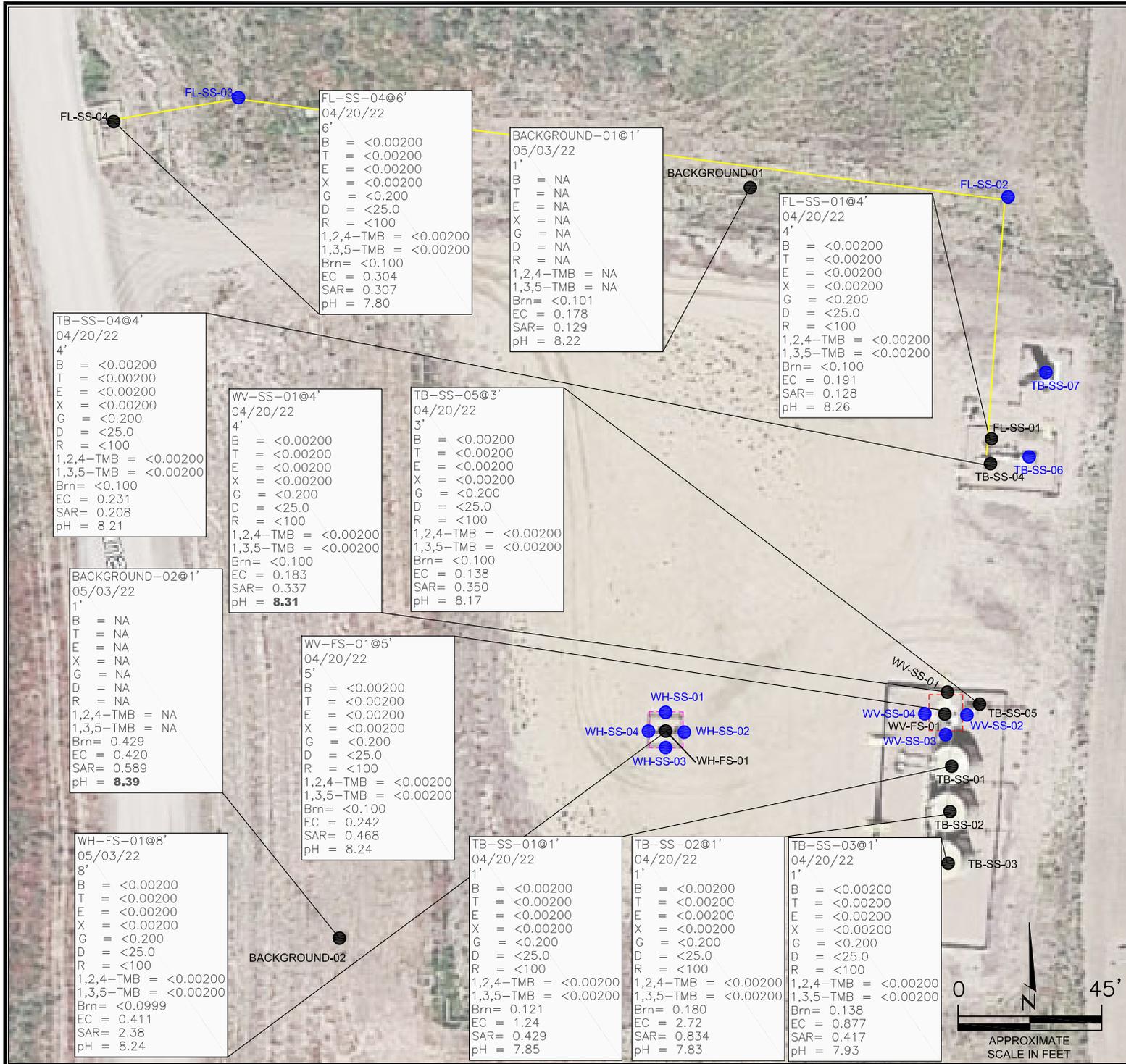


AERIAL SITE LOCATION MAP
 LATHAM 21-1
 CLOSURE ASSESSMENT
 40.346020 / -104.387320
 NE¼ NW¼ SEC.1 T4N R6.3W 6PM
 WELD COUNTY, COLORADO
 LOCATION ID 429652
 API # 05-123-35857
 REMEDIATION # 22762

DATE:	
07/08/22	
FIG. NO.	DRAWN BY:
2	TC



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LEGEND

- INITIAL WELLHEAD ASSESSMENT BOUNDARIES
- INITIAL VAULT ASSESSMENT BOUNDARIES
- APPROX. GASLINE LOCATION (REMOVED)
- APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED, ONLY, WITH PHOTOIONIZATION DETECTOR
- APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS

PARAMETERS

SAMPLE LOCATION

DATE

DEPTH (FEET)

B = BENZENE (mg/kg)

T = TOLUENE (mg/kg)

E = ETHYLBENZENE (mg/kg)

X = TOTAL XYLENES (mg/kg)

G = TPH-GRO (mg/kg)

D = TPH-DRO (mg/kg)

R = TPH-RRO (mg/kg)

1,2,4-TMB = 1,2,4 TRIMETHYLBENZENE (mg/kg)

1,3,5-TMB = 1,3,5 TRIMETHYLBENZENE (mg/kg)

Brn= BORON (mg/L)

EC = SPECIFIC CONDUCTANCE (mmhos/cm)

SAR= SODIUM ADSORPTION RATIO

pH = pH (pH UNITS)

mg/kg = MILLIGRAMS PER KILOGRAM

mg/L = MILLIGRAMS PER LITER

mmhos/cm = MILLIMHOS PER CENTIMETER

NA - NOT ANALYZED

TPH-GRO = TOTAL PETROLEUM HYDROCARBONS - GASOLINE RANGE ORGANICS

TPH-DRO = TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE ORGANICS

TPH-RRO = TOTAL PETROLEUM HYDROCARBONS - RESIDUAL RANGE ORGANICS

NOTES:

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

VALUES PRESENTED IN **BOLD** EXCEED CONTAIN COGCC TABLE 915-1 REGULATORY LIMITS.

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

SOIL ANALYTICAL MAP

LATHAM 21-1

CLOSURE ASSESSMENT

40.346020 / -104.387320

NE¼ NW¼ SEC.1 T4N R63W 6PM

WELD COUNTY, COLORADO

FACILITY ID # 429652

API # 05-123-35857

REMEDATION # 22762

DATE: 08/12/22

DRAWN BY: TC

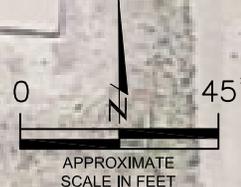
FIG. NO. 3

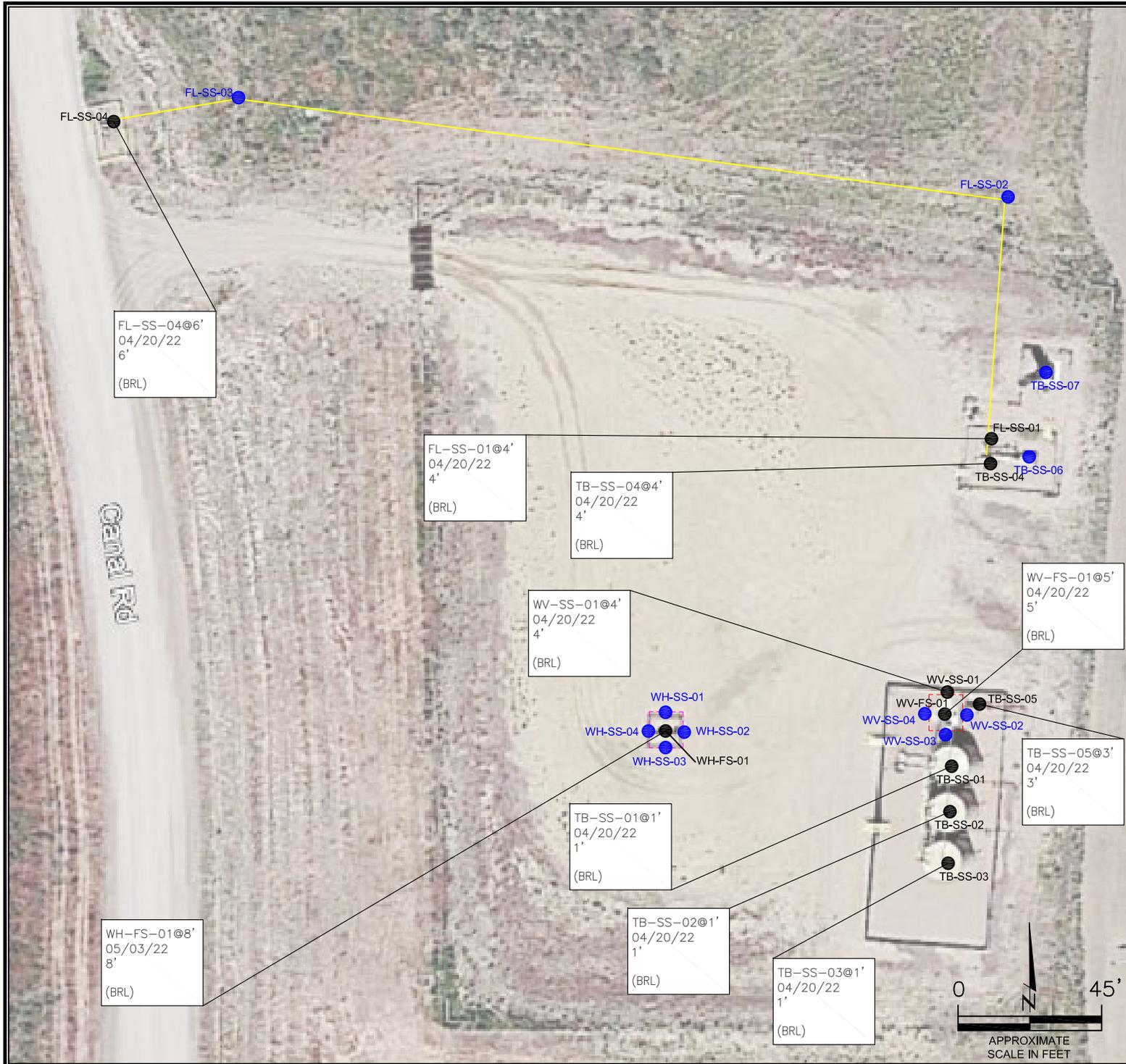


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FL-SS-04@6'
04/20/22
6'
(BRL)

FL-SS-01@4'
04/20/22
4'
(BRL)

TB-SS-04@4'
04/20/22
4'
(BRL)

WV-SS-01@4'
04/20/22
4'
(BRL)

WV-FS-01@5'
04/20/22
5'
(BRL)

WH-SS-01
WH-SS-02
WH-SS-03
WH-FS-01

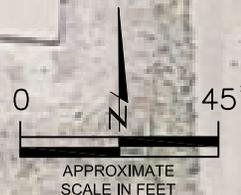
TB-SS-01@1'
04/20/22
1'
(BRL)

TB-SS-05@3'
04/20/22
3'
(BRL)

WH-FS-01@8'
05/03/22
8'
(BRL)

TB-SS-02@1'
04/20/22
1'
(BRL)

TB-SS-03@1'
04/20/22
1'
(BRL)



LEGEND

- INITIAL WELLHEAD ASSESSMENT BOUNDARIES
- INITIAL VAULT ASSESSMENT BOUNDARIES
- APPROX. GASLINE LOCATION (REMOVED)
- APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED, ONLY, WITH PHOTOIONIZATION DETECTOR
- APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS

PARAMETERS

SAMPLE LOCATION
DATE SAMPLE COLLECTED
APPROXIMATE DEPTH

POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (mg/kg)

mg/kg = MILLIGRAMS PER KILOGRAM

ND = NON-DETECT

(BRL) - ALL CONCENTRATIONS BELOW REGULATORY LIMITS

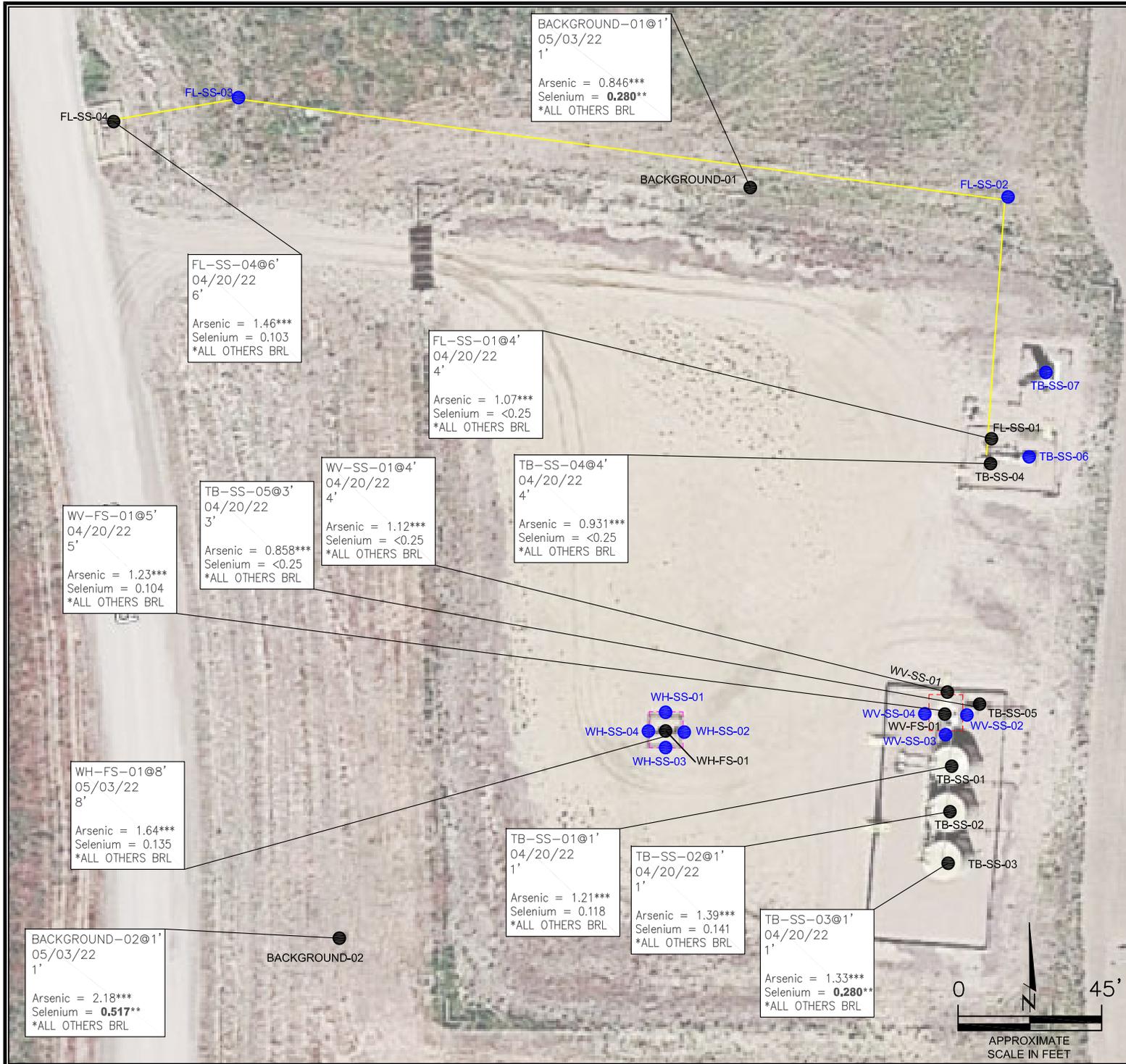
NOTES:
VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT OR ABOVE LABORATORY DETECTION LIMITS

POLYCYCLIC AROMATIC HYDROCARBONS MAP
LATHAM 21-1
CLOSURE ASSESSMENT
40.346020 / -104.387320
NE¼ NW¼ SEC.1 T4N R63W 6PM
WELD COUNTY, COLORADO
LOCATION ID 429652
API # 05-123-35857
REMEDATION # 22762

DATE:
08/12/22
DRAWN BY:
TC

FIG.
NO. 4

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LEGEND

- INITIAL WELLHEAD ASSESSMENT BOUNDARIES
- INITIAL VAULT ASSESSMENT BOUNDARIES
- APPROX. GASLINE LOCATION (REMOVED)
- APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED, ONLY, WITH PHOTOIONIZATION DETECTOR
- APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS

PARAMETERS

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

mg/kg = MILLIGRAMS PER KILOGRAM
BRL = BELOW REGULATORY LIMITS

NOTES:
*METALS WITH CONCENTRATIONS EXCEEDING COGCC REGULATORY LIMITS, ONLY, ARE LISTED

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

VALUES PRESENTED IN **BOLD** EXCEED COGCC TABLE 915-1 VALUES

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

***ARSENIC IS NATURALLY OCCURRING IN COLORADO. LOCAL "CLEAN-UP LEVEL" (1.89 mg/kg) IS 1.25*BACKGROUND AVERAGE (1.54 mg/kg).

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

METALS IN SOIL MAP
LATHAM 21-1
CLOSURE ASSESSMENT
40.346020 / -104.387320
NE¼ NW¼ SEC.1 T4N R63W 6PM
WELD COUNTY, COLORADO
FACILITY ID # 429652
API # 05-123-35857
REMEDATION # 22762

DATE:	08/12/22
DRAWN BY:	TC
FIG. NO.	5

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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
LATHAM 21-1
CLOSURE ASSESSMENT
40.346020 / -104.387320
NE 1/4 NW 1/4 SEC.1 T4N R63W 6PM
WELD COUNTY, COLORADO
LOCATION ID 429652
API # 05-123-35857
REMEDICATION # 22762

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
WV-SS-01 @ 4' (40.346060938 / -104.387000086)	04/20/22	4	1.5	Y
WV-SS-02 @ 4' (40.346043125 / -104.386977249)	04/20/22	4	0.1	N
WV-SS-03 @ 4' (40.346033396 / -104.387003604)	04/20/22	4	0.1	N
WV-SS-04 @ 4' (40.346053052 / -104.387011619)	04/20/22	4	0.2	N
WV-FS-01 @ 5' (40.346046231 / -104.387001904)	04/20/22	5	0.9	Y
TB-SS-01 @ 1' (40.346003548 / -104.386955286)	04/20/22	1	0.1	Y
TB-SS-02 @ 1' (40.345959146 / -104.386974041)	04/20/22	1	1.8	Y
TB-SS-03 @ 1' (40.345919817 / -104.386977475)	04/20/22	1	2.1	Y
TB-SS-04 @ 4' (40.346256115 / -104.386943384)	04/20/22	4	2.7	Y
TB-SS-05 @ 3' (40.346037284 / -104.386961915)	04/20/22	3	1.6	Y
TB-SS-06 @ 4' (40.346280212 / -104.386884468)	04/20/22	4	2.6	N
TB-SS-07 @ 0.5' (40.346340229 / -104.386870214)	04/20/22	0.5	0.3	N
FL-SS-01 @ 4' (40.346273602 / -104.386943187)	04/20/22	4	5.3	Y
FL-SS-02 @ 4' (40.346499631 / -104.386917427)	04/20/22	4	2.7	N
FL-SS-03 @ 4' (40.346596323 / -104.387839349)	04/20/22	4	2.6	N
FL-SS-04 @ 6' (40.346579557 / -104.387988735)	04/20/22	6	4.6	Y
WH-SS-01 @ 7' (40.346044056 / -104.387320163)	05/03/22	7	2.7	N
WH-SS-02 @ 7' (40.346027648 / -104.387302216)	05/03/22	7	3.1	N
WH-SS-03 @ 7' (40.346014388 / -104.387321552)	05/03/22	7	4.7	N
WH-SS-04 @ 7' (40.346028075 / -104.387340835)	05/03/22	7	5.4	N
WH-FS-01 @ 8' (40.346029332 / -104.387320079)	05/03/22	8	5.1	Y
Background-01 @ 1' (40.346537946 / -104.387212414)	05/03/22	1	4.5	Y
Background-02 @ 1' (40.345850639 / -104.387679845)	05/03/22	1	3.9	Y
(Y/N) = Yes or No ppm-v = parts per million by volume PID = photoionization detector				

TABLE 2
SOIL ANALYTICAL RESULTS SUMMARY
LATHAM 21-1
CLOSURE ASSESSMENT
40.346020 / -104.387320
NE 1/4 NW 1/4 SEC.1 T4N R63W 6PM
WELD COUNTY, COLORADO
LOCATION ID 429652
API # 05-123-35857
REMEDATION # 22762

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	--	--	--	--
WV-SS-01 @ 4' (40.346060938 / -104.387000086)	04/20/22	4	1.5	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	<0.100	0.183	8.31	0.337
WV-FS-01 @ 5' (40.346046231 / -104.387001904)	04/20/22	5	0.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	<0.100	0.242	8.24	0.468
TB-SS-01 @ 1' (40.346003548 / -104.386955286)	04/20/22	1	0.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	0.121	1.24	7.85	0.429
TB-SS-02 @ 1' (40.345959146 / -104.386974041)	04/20/22	1	1.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	0.180	2.72	7.83	0.834
TB-SS-03 @ 1' (40.345919817 / -104.386977475)	04/20/22	1	2.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	0.138	0.877	7.93	0.417
TB-SS-04 @ 4' (40.346256115 / -104.386943384)	04/20/22	4	2.7	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	<0.100	0.231	8.21	0.208
TB-SS-05 @ 3' (40.346037284 / -104.386961915)	04/20/22	3	1.6	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	<0.100	0.138	8.17	0.350
FL-SS-01 @ 4' (40.346273602 / -104.386943187)	04/20/22	4	5.3	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	<0.100	0.191	8.26	0.128
FL-SS-04 @ 6' (40.346579557 / -104.387988735)	04/20/22	6	4.6	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	<0.100	0.304	7.80	0.307
WH-FS-01 @ 8' (40.346029332 / -104.387320079)	05/03/22	8	5.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	<0.0999	0.411	8.24	2.38
Background-01 @ 1' (40.346537946 / -104.387212414)	05/03/22	1	4.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.101	0.178	8.22	0.129
Background-02 @ 1' (40.345850639 / -104.387679845)	05/03/22	1	3.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.429	0.420	8.39	0.589

COGCC = Colorado Oil and Gas Conservation Commission
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

Notes:
Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory MDL and/or reporting limit.
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
LATHAM 21-1
CLOSURE ASSESSMENT
40.346020 / -104.387320
NE 1/4 NW 1/4 SEC.1 T4N R63W 6PM
WELD COUNTY, COLORADO
LOCATION ID 429652
API # 05-123-35857
REMEDATION # 22762

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	
WV-SS-01 @ 4' (40.346050938 / -104.387000086)	04/20/22	4	1.5	0.000406	<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' (40.346046231 / -104.387001904)	04/20/22	5	0.9	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	
TB-SS-01 @ 1' (40.346003548 / -104.386955286)	04/20/22	1	0.1	<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-02 @ 1' (40.345999146 / -104.386974041)	04/20/22	1	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-03 @ 1' (40.345919817 / -104.386977475)	04/20/22	1	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-04 @ 4' (40.346256115 / -104.386943384)	04/20/22	4	2.7	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	
TB-SS-05 @ 3' (40.346037284 / -104.386961915)	04/20/22	3	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	
FL-SS-01 @ 4' (40.346273602 / -104.386943187)	04/20/22	4	5.3	<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	
FL-SS-04 @ 6' (40.346579557 / -104.387988735)	04/20/22	6	4.6	<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 @ 8' (40.346029332 / -104.387320079)	05/03/22	8	5.1	<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 mg/kg = milligrams per kilogram				PID = Photoionization Detector ppm-v = parts per million by volume															
Notes: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit. 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																			

TABLE 4
 METALS ANALYTICAL RESULTS SUMMARY
 LATHAM 21-1
 CLOSURE ASSESSMENT
 40.346020 / -104.387320
 NE 1/4 NW 1/4 SEC.1 T4N R63W 6PM
 WELD COUNTY, COLORADO
 LOCATION ID 429652
 API # 05-123-35857
 REMEDIATION # 22762

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			1.89***	--	--	0.1 to 1**	--	--	--	--	--	--
WV-SS-01 @ 4' (40.346060938 / -104.387000086)	04/20/22	4	1.12***	21.9	0.0502	NA	2.99	2.51	3.39	<0.25	0.0077	16.7
WV-FS-01 @ 5' (40.346046231 / -104.387001904)	04/20/22	5	1.23***	23.7	0.0511	NA	2.64	3.43	2.36	0.104	0.0072	11.1
TB-SS-01 @ 1' (40.346003548 / -104.386955286)	04/20/22	1	1.21***	29.3	0.0671	NA	4.19	3.34	3.1	0.118	0.0114	14.6
TB-SS-02 @ 1' (40.345959146 / -104.386974041)	04/20/22	1	1.39***	41.2	0.0769	NA	5.07	3.94	3.92	0.141	0.0153	16.4
TB-SS-03 @ 1' (40.345919817 / -104.386977475)	04/20/22	1	1.33***	48.8	0.0403	NA	4.16	5.46	2.85	0.281*	0.0103	16.5
TB-SS-04 @ 4' (40.346256115 / -104.386943384)	04/20/22	4	0.931***	16.3	0.0399	NA	1.92	2.17	1.45	<0.25	<0.25	8.55
TB-SS-05 @ 3' (40.346037284 / -104.386961915)	04/20/22	3	0.858***	18.8	0.0313	NA	1.66	2.08	1.52	<0.25	<0.25	8.4
FL-SS-01 @ 4' (40.346273602 / -104.386943187)	04/20/22	4	1.07***	23.7	0.0277	NA	1.68	2.44	1.5	<0.25	<0.25	8.34
FL-SS-04 @ 6' (40.346579557 / -104.387988735)	04/20/22	6	1.46***	28.8	0.0436	NA	2.13	3.1	2.15	0.103	0.0105	10.4
WH-FS-01 @ 8' (40.346029332 / -104.387320079)	05/03/22	8	1.64***	43.3	0.0502	<0.252**	3.08	3.7	2.65	0.135	0.0074	14
Background-01 @ 1' (40.346537946 / -104.387212414)	05/03/22	1	0.846***	18	0.0494	<0.244**	2.5	2.75	1.18	0.280*	<0.25	12
Background-02 @ 1' (40.345850639 / -104.387679845)	05/03/22	1	2.18***	73.7	0.101	<0.244**	6.76	6.34	6.42	0.517*	0.0183	28.2
COGCC = Colorado Oil and Gas Conservation Commission mg/kg = milligrams per kilogram NA - Not Analyzed 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. ***Arsenic is naturally occurring in Colorado. Local clean-up level (1.89 mg/kg) is 1.25*Average Background (1.51 mg/kg)												



ATTACHMENT A

Photo Log

Latham 21-1
Location ID 429652
API # 05-123-35857
Remediation # 22762

Closure Assessment

April - May 2022



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



Buried Vault Excavation – 04/20/22



Looking south at buried vault excavation
No petroleum hydrocarbon staining or odor observed

Tank Battery Decommissioning – 04/20/22



Looking west at water tank footprint
No petroleum hydrocarbon staining or odor observed



Looking west at crude tank connection
No petroleum hydrocarbon staining or odor observed

Tank Battery Decommissioning – 04/20/22



Looking west at crude tank footprint
No petroleum hydrocarbon odor or staining observed

Tank Battery Decommissioning – 04/20/22



Looking south

Separator flowline connection

No petroleum hydrocarbon staining or odor observed

Tank Battery Decommissioning – 04/20/22



Looking south

EDC KO Tank

No petroleum hydrocarbon staining or odor observed

Tank Battery Decommissioning – 04/20/22



Looking southeast

Separator dumpline connection

No petroleum hydrocarbon staining or odor observed

Tank Battery Decommissioning – 04/20/22



Looking east

Former VOC burner footprint

No petroleum hydrocarbon staining or odor observed

Flowline Decommissioning – 04/20/22



Looking south

Separator flowline connection

No petroleum hydrocarbon staining or odor observed

Flowline Decommissioning – 04/20/22



FL-SS-02
PID = 2.7 ppm

Looking north

Flowline north to east change of direction

No petroleum hydrocarbon staining or odor observed

Flowline Decommissioning – 04/20/22

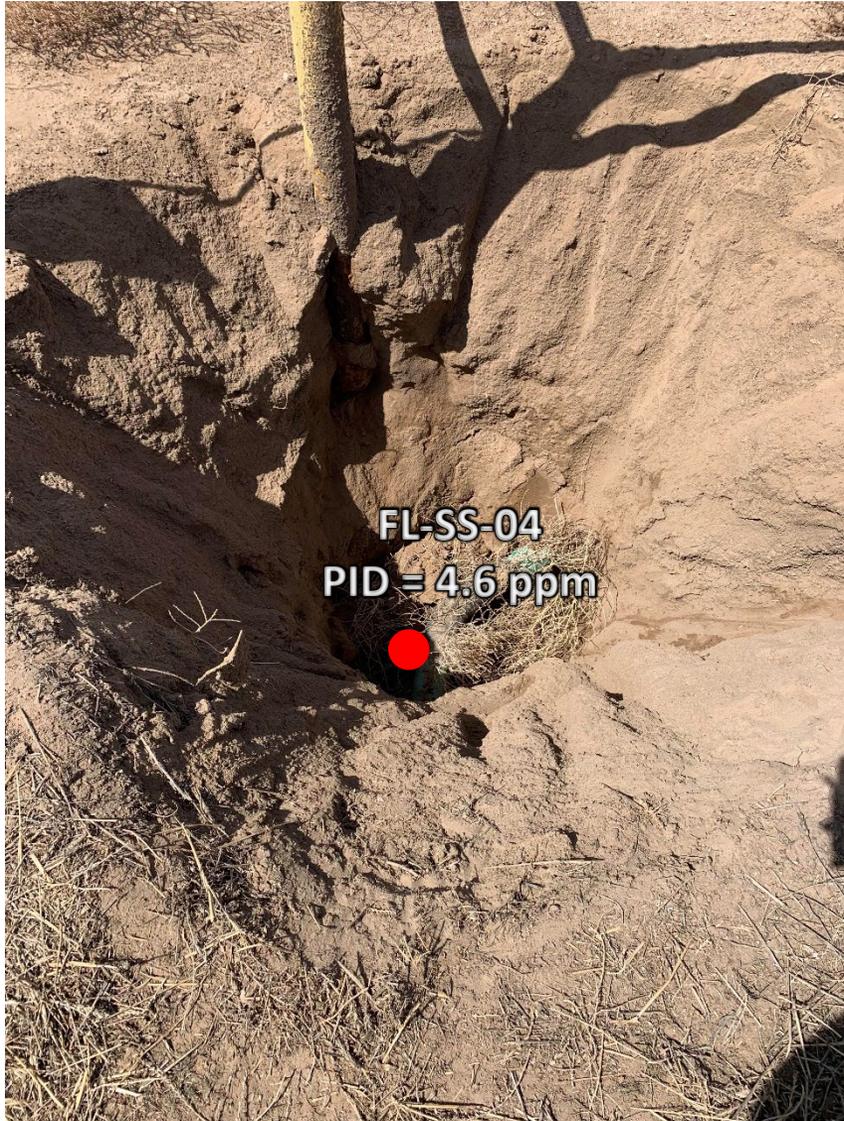


Looking west

Flowline west-northwest to west change of direction

No petroleum hydrocarbon staining or odor observed

Flowline Decommissioning – 04/20/22

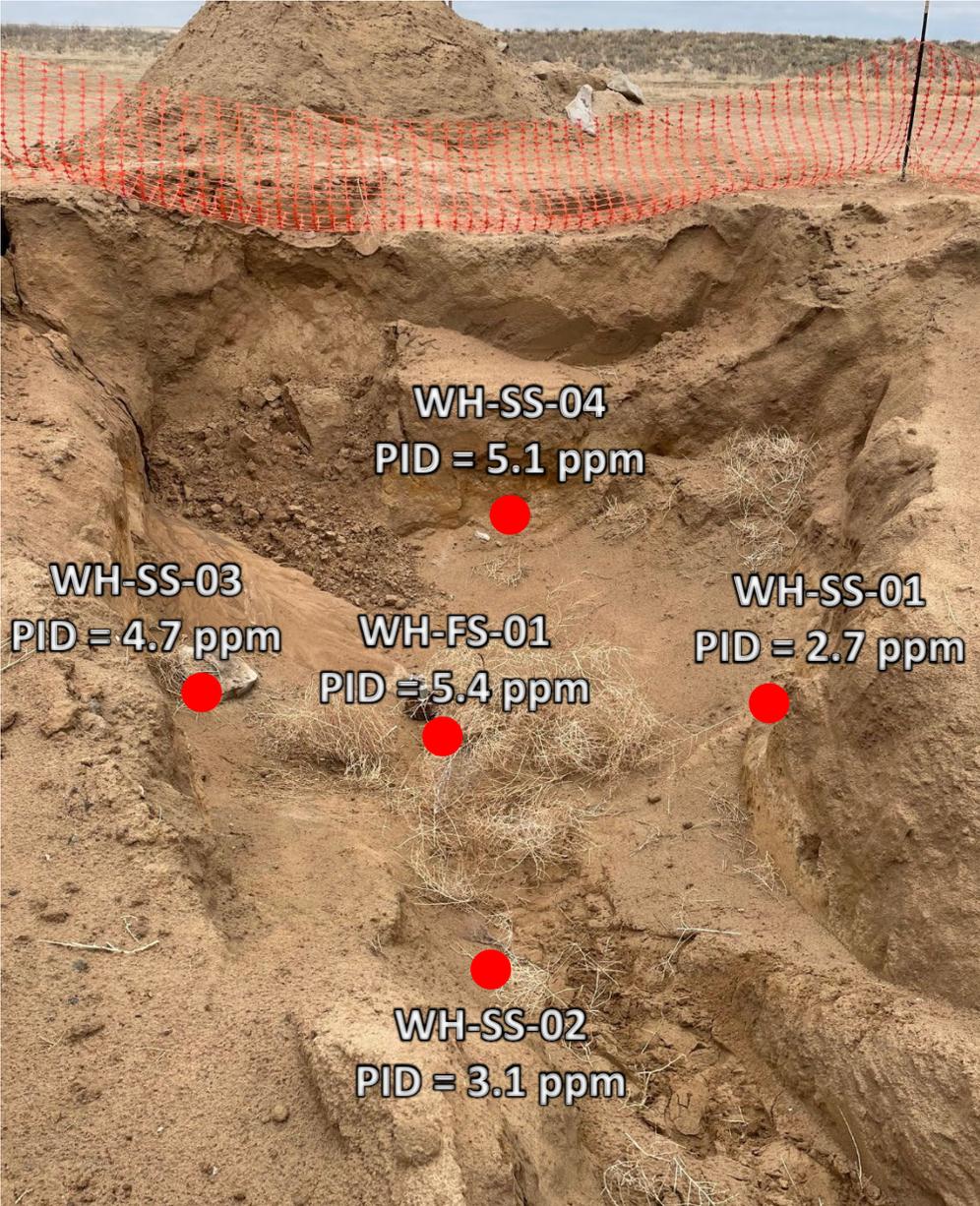


Looking east

Flowline terminus at manifold

No petroleum hydrocarbon staining or odor observed

Wellhead Decommissioning – 05/03/22



Looking west

No petroleum hydrocarbon staining or odor observed



ATTACHMENT B

Laboratory Analytical Reports

June 13, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Bonanza - Latham 21-1

Project Number - [none]

Attached are your analytical results for Bonanza - Latham 21-1 received by Origins Laboratory, Inc. April 20, 2022. This project is associated with Origins project number Y204454-01.

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

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

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

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

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

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



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

Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - Latham 21-1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WV-SS-01@4'	Y204454-01	Soil	April 20, 2022 10:29	04/20/2022 17:33
WV-FS-01@5'	Y204454-02	Soil	April 20, 2022 10:36	04/20/2022 17:33
TB-SS-01@1'	Y204454-03	Soil	April 20, 2022 10:40	04/20/2022 17:33
TB-SS-02@1'	Y204454-04	Soil	April 20, 2022 10:42	04/20/2022 17:33
TB-SS-03@1'	Y204454-05	Soil	April 20, 2022 10:44	04/20/2022 17:33
TB-SS-04@4'	Y204454-06	Soil	April 20, 2022 10:46	04/20/2022 17:33
TB-SS-05@3'	Y204454-07	Soil	April 20, 2022 10:50	04/20/2022 17:33
FL-SS-01@4'	Y204454-08	Soil	April 20, 2022 11:30	04/20/2022 17:33
FL-SS-04@6'	Y204454-09	Soil	April 20, 2022 11:36	04/20/2022 17:33

Chain of Custody Modification Request

On 5/31/2022, Andrew Newberry from Eagle Environmental contacted Jordan Bynon via email regarding Y204454 requesting that the Table 915 Metals by 6020 are added to all samples.

Requested modifications to the chain of custody were made by Jordan Bynon on 5/31/2022.

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 - Latham 21-1

www.originslaboratory.com
 page | of |

7204454

Client: Eagle Env. Consulting
 Address: 800 W 44th Ave.
 Wheat Ridge, Co 80033
 Telephone Number: 303-433-6479
 Email Address: m.c.eckert@origins-lab.com

Project Manager: Martin Eckert III
 Project Name: Latham 21-1
 Project Number: -
 Samples Collected By: R.H. BRW

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis				Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa	Other	Gravimetric	Dioxin	PAHs	
W1-SS-01-04'	4/20/22	1129	2	X				X				X	X	X	EC, STH, PHT =
W1-SS-01-05'		1034													Saturated paste
TR-SS-01-01'		1040													prep
TR-SS-02-01'		1042													
TR-SS-03-01'		1044													MPLs included
TR-SS-04-04'		1046													
TR-SS-05-03'		1050													
FL-SS-01-04'		1130													
FL-SS-04-06'		1136													
Relinquished By: <i>[Signature]</i>	Date: 4/20/22	Time: 1733													
Relinquished By: <i>[Signature]</i>	Date: 4/20/22	Time: 1733													

Temp Received: 2.5
 Date Results Needed: 4/20/22
 Turnaround Time: Same Day 24 Hr 48 Hr 72 Hr Standard

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 - Latham 21-1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y20445

Client: Eagle
 Client Project ID: Latham 21-1

Checklist Completed by: SG
 Date/time completed: 4/21/22

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 / 3-5 °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 ≤ 5°C ⁽¹⁾ ?	/			
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		/		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		/		
Were all samples received intact ⁽¹⁾ ?	/			
Was adequate sample volume provided ⁽¹⁾ ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		/		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	/			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	/			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	/			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			/	
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)			/	
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: [Signature]
 (Project Manager)

4-22-22
 Date/Time Reviewed

Origins Laboratory, Inc.

[Signature]

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 - Latham 21-1

WV-SS-01@4'

4/20/2022 10:29:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204454-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.100	mg/L	1	B2D2128	04/21/2022	04/22/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2D2602	04/26/2022	04/27/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	76.9 %		50-150			"	"	"	
------------------------	--------	--	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2D2228	04/22/2022	04/28/2022	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	95.6 %		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 - Latham 21-1

WV-SS-01@4'
4/20/2022 10:29:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204454-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	100 %		70-130			B2D22 28	04/22/2022	04/28/2022	
Surrogate: 4-Bromofluorobenzene	94.6 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.938		0.499	meq/L	10	[CALC]	04/21/2022	04/22/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.000406	0.000364	0.00067	mg/Kg	1	L612438	04/23/2022	04/26/2022	J
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 - Latham 21-1

WV-SS-01@4'
4/20/2022 10:29:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y204454-01 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L612438	04/23/2022	04/26/2022	
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	50 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	65.9 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	54.3 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.31			pH Units	1	B2D2202	04/21/2022	04/22/2022	
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SAR by 20B Saturated Paste

SAR	0.337			SAR	1	B2D2127	04/21/2022	04/22/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.183		0.00500	mmhos/cm	1	B2D2201	04/21/2022	04/22/2022	
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Total Metals by 6020B

Arsenic	1.12	0.0855	0.25	mg/Kg	5	L619314	06/01/2022	06/04/2022	
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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 - Latham 21-1

WV-SS-01@4'

4/20/2022 10:29:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y204454-01 (Soil)

Total Metals by 6020B

Barium	21.9	0.042	0.25	mg/Kg	5	L619314	06/01/2022	06/04/2022	
Cadmium	0.0502	0.0259	0.25	"	"	"	"	"	J
Copper	2.99	0.0806	0.25	"	"	"	"	"	
Lead	2.51	0.031	0.25	"	"	"	"	"	
Nickel	3.39	0.0633	0.25	"	"	"	"	"	
Selenium	ND	0.103	0.25	"	"	"	"	"	
Silver	0.0077	0.0067	0.25	"	"	"	"	"	J
Zinc	16.7	0.534	2.5	"	"	"	"	"	

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - Latham 21-1

WV-FS-01@5'
4/20/2022 10:36:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204454-02 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.100	mg/L	1	B2D2128	04/21/2022	04/22/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2D2602	04/26/2022	04/27/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 78.8 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2D2228	04/22/2022	04/24/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 92.6 % 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 - Latham 21-1

WV-FS-01@5'

4/20/2022 10:36:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204454-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	108 %		70-130			B2D22 28	04/22/2022	04/24/2022	
Surrogate: 4-Bromofluorobenzene	96.8 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.21		0.499	meq/L	10	[CALC]	04/21/2022	04/22/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.444		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L612438	04/23/2022	04/26/2022	
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 - Latham 21-1

WV-FS-01@5'
4/20/2022 10:36:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y204454-02 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L612438	04/23/2022	04/26/2022	
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	51.2 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	64.1 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	61 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.24			pH Units	1	B2D2202	04/21/2022	04/22/2022	
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SAR by 20B Saturated Paste

SAR	0.468			SAR	1	B2D2127	04/21/2022	04/22/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.242		0.00500	mmhos/cm	1	B2D2201	04/21/2022	04/22/2022	
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Total Metals by 6020B

Arsenic	1.23	0.0855	0.25	mg/Kg	5	L619314	06/01/2022	06/04/2022	
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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 - Latham 21-1

WV-FS-01@5'

4/20/2022 10:36:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y204454-02 (Soil)

Total Metals by 6020B

Barium	23.7	0.042	0.25	mg/Kg	5	L619314	06/01/2022	06/04/2022	
Cadmium	0.0511	0.0259	0.25	"	"	"	"	"	J
Copper	2.64	0.0806	0.25	"	"	"	"	"	
Lead	3.43	0.031	0.25	"	"	"	"	"	
Nickel	2.36	0.0633	0.25	"	"	"	"	"	
Selenium	0.104	0.103	0.25	"	"	"	"	"	J
Silver	0.0072	0.0067	0.25	"	"	"	"	"	J
Zinc	11.1	0.534	2.5	"	"	"	"	"	

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - Latham 21-1

TB-SS-01@1'
4/20/2022 10:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204454-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.121		0.100	mg/L	1	B2D2128	04/21/2022	04/22/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2D2602	04/26/2022	04/27/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	82.8 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2D2228	04/22/2022	04/24/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	92.1 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - Latham 21-1

TB-SS-01@1'
4/20/2022 10:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204454-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	110 %		70-130			B2D22 28	04/22/2022	04/24/2022	
Surrogate: 4-Bromofluorobenzene	98.8 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	9.51		0.499	meq/L	10	[CALC]	04/21/2022	04/22/2022	
Magnesium	4.17		0.823	"	"	"	"	"	
Sodium	1.12		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L612438	04/23/2022	04/26/2022	
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 - Latham 21-1

TB-SS-01@1'
4/20/2022 10:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y204454-03 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L612438	04/23/2022	04/26/2022	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	55 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	70.2 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	64.7 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.85			pH Units	1	B2D2202	04/21/2022	04/22/2022	
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SAR by 20B Saturated Paste

SAR	0.429			SAR	1	B2D2127	04/21/2022	04/22/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.24		0.00500	mmhos/cm	1	B2D2201	04/21/2022	04/22/2022	
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Total Metals by 6020B

Arsenic	1.21	0.0855	0.25	mg/Kg	5	L619314	06/01/2022	06/04/2022	
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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 - Latham 21-1

TB-SS-01@1'

4/20/2022 10:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y204454-03 (Soil)

Total Metals by 6020B

Barium	29.3	0.042	0.25	mg/Kg	5	L619314	06/01/2022	06/04/2022	
Cadmium	0.0671	0.0259	0.25	"	"	"	"	"	J
Copper	4.19	0.0806	0.25	"	"	"	"	"	
Lead	3.34	0.031	0.25	"	"	"	"	"	
Nickel	3.1	0.0633	0.25	"	"	"	"	"	
Selenium	0.118	0.103	0.25	"	"	"	"	"	J
Silver	0.0114	0.0067	0.25	"	"	"	"	"	J
Zinc	14.6	0.534	2.5	"	"	"	"	"	

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - Latham 21-1

TB-SS-02@1'
4/20/2022 10:42:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204454-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.180		0.100	mg/L	1	B2D2128	04/21/2022	04/22/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2D2602	04/26/2022	04/27/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	77.4 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2D2228	04/22/2022	04/24/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	92.0 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - Latham 21-1

TB-SS-02@1'
4/20/2022 10:42:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204454-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	110 %		70-130			B2D22 28	04/22/2022	04/24/2022	
Surrogate: 4-Bromofluorobenzene	99.4 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	24.8		0.499	meq/L	10	[CALC]	04/21/2022	04/22/2022	
Magnesium	8.41		0.823	"	"	"	"	"	
Sodium	3.40		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L612438	04/23/2022	04/26/2022	
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 - Latham 21-1

TB-SS-02@1'
4/20/2022 10:42:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y204454-04 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L612438	04/23/2022	04/26/2022	
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	56.4 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	69.3 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	66.3 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.83			pH Units	1	B2D2202	04/21/2022	04/22/2022	
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SAR by 20B Saturated Paste

SAR	0.834			SAR	1	B2D2127	04/21/2022	04/22/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.72		0.00500	mmhos/cm	1	B2D2201	04/21/2022	04/22/2022	
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Total Metals by 6020B

Arsenic	1.39	0.0855	0.25	mg/Kg	5	L619314	06/01/2022	06/04/2022	
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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 - Latham 21-1

TB-SS-02@1'

4/20/2022 10:42:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y204454-04 (Soil)

Total Metals by 6020B

Barium	41.2	0.042	0.25	mg/Kg	5	L619314	06/01/2022	06/04/2022	
Cadmium	0.0769	0.0259	0.25	"	"	"	"	"	J
Copper	5.07	0.0806	0.25	"	"	"	"	"	
Lead	3.94	0.031	0.25	"	"	"	"	"	
Nickel	3.92	0.0633	0.25	"	"	"	"	"	
Selenium	0.141	0.103	0.25	"	"	"	"	"	J
Silver	0.0153	0.0067	0.25	"	"	"	"	"	J
Zinc	16.4	0.534	2.5	"	"	"	"	"	

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 - Latham 21-1

TB-SS-03@1'
4/20/2022 10:44:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204454-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.138		0.100	mg/L	1	B2D2128	04/21/2022	04/22/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2D2602	04/26/2022	04/27/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	81.0 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2D2228	04/22/2022	04/28/2022	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	91.2 %		70-130			"	"	04/24/2022	
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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 - Latham 21-1

TB-SS-03@1'
4/20/2022 10:44:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204454-05 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	111 %		70-130			B2D22 28	04/22/2022	04/24/2022	
Surrogate: 4-Bromofluorobenzene	103 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	5.61		0.499	meq/L	10	[CALC]	04/21/2022	04/22/2022	
Magnesium	2.67		0.823	"	"	"	"	"	
Sodium	0.848		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L612438	04/23/2022	04/26/2022	
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 - Latham 21-1

TB-SS-03@1'

4/20/2022 10:44:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y204454-05 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L612438	04/23/2022	04/26/2022	
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	53.8 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	67.8 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	62 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.93			pH Units	1	B2D2202	04/21/2022	04/22/2022	
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SAR by 20B Saturated Paste

SAR	0.417			SAR	1	B2D2127	04/21/2022	04/22/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.877		0.00500	mmhos/cm	1	B2D2201	04/21/2022	04/22/2022	
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Total Metals by 6020B

Arsenic	1.33	0.0855	0.25	mg/Kg	5	L620711	06/09/2022	06/11/2022	
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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 - Latham 21-1

TB-SS-03@1'

4/20/2022 10:44:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y204454-05 (Soil)

Total Metals by 6020B

Barium	48.8	0.042	0.25	mg/Kg	5	L620711	06/09/2022	06/11/2022	
Cadmium	0.0403	0.0259	0.25	"	"	"	"	"	J
Copper	4.16	0.0806	0.25	"	"	"	"	"	
Lead	5.46	0.031	0.25	"	"	"	"	"	
Nickel	2.85	0.0633	0.25	"	"	"	"	"	
Selenium	0.281	0.103	0.25	"	"	"	"	"	
Silver	0.0103	0.0067	0.25	"	"	"	"	"	J
Zinc	16.5	0.534	2.5	"	"	"	"	"	

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - Latham 21-1

TB-SS-04@4'
4/20/2022 10:46:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204454-06 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.100	mg/L	1	B2D2128	04/21/2022	04/22/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2D2602	04/26/2022	04/27/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 80.5 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2D2228	04/22/2022	04/24/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 93.2 % 70-130 " " "

Origins Laboratory, Inc.



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

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

Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - Latham 21-1

TB-SS-04@4'

4/20/2022 10:46:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204454-06 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	110 %		70-130			B2D22 28	04/22/2022	04/24/2022	
Surrogate: 4-Bromofluorobenzene	99.8 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.54		0.499	meq/L	10	[CALC]	04/21/2022	04/22/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L612438	04/23/2022	04/26/2022	
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 - Latham 21-1

TB-SS-04@4'
4/20/2022 10:46:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y204454-06 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L612438	04/23/2022	04/26/2022	
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	50.3 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	65.3 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	61 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.21			pH Units	1	B2D2202	04/21/2022	04/22/2022	
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SAR by 20B Saturated Paste

SAR	0.208			SAR	1	B2D2127	04/21/2022	04/22/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.231		0.00500	mmhos/cm	1	B2D2201	04/21/2022	04/22/2022	
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Total Metals by 6020B

Arsenic	0.931	0.0855	0.25	mg/Kg	5	L619314	06/01/2022	06/04/2022	
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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 - Latham 21-1

TB-SS-04@4'

4/20/2022 10:46:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y204454-06 (Soil)

Total Metals by 6020B

Barium	16.3	0.042	0.25	mg/Kg	5	L619314	06/01/2022	06/04/2022	
Cadmium	0.0399	0.0259	0.25	"	"	"	"	"	J
Copper	1.92	0.0806	0.25	"	"	"	"	"	
Lead	2.17	0.031	0.25	"	"	"	"	"	
Nickel	1.45	0.0633	0.25	"	"	"	"	"	
Selenium	ND	0.103	0.25	"	"	"	"	"	
Silver	ND	0.0067	0.25	"	"	"	"	"	
Zinc	8.55	0.534	2.5	"	"	"	"	"	

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - Latham 21-1

TB-SS-05@3'
4/20/2022 10:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204454-07 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.100	mg/L	1	B2D2128	04/21/2022	04/22/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2D2602	04/26/2022	04/27/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	81.2 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2D2228	04/22/2022	04/24/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	93.8 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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

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

Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - Latham 21-1

TB-SS-05@3'

4/20/2022 10:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204454-07 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	109 %		70-130			B2D22 28	04/22/2022	04/24/2022	
Surrogate: 4-Bromofluorobenzene	98.7 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.604		0.499	meq/L	10	[CALC]	04/21/2022	04/22/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L612438	04/23/2022	04/26/2022	
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 - Latham 21-1

TB-SS-05@3'
4/20/2022 10:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y204454-07 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L612438	04/23/2022	04/26/2022	
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	50.8 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	64.2 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	59.9 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.17			pH Units	1	B2D2202	04/21/2022	04/22/2022	
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SAR by 20B Saturated Paste

SAR	0.350			SAR	1	B2D2127	04/21/2022	04/22/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.138		0.00500	mmhos/cm	1	B2D2201	04/21/2022	04/22/2022	
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Total Metals by 6020B

Arsenic	0.858	0.0855	0.25	mg/Kg	5	L619314	06/01/2022	06/04/2022	
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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 - Latham 21-1

TB-SS-05@3'
4/20/2022 10:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y204454-07 (Soil)

Total Metals by 6020B

Barium	18.8	0.042	0.25	mg/Kg	5	L619314	06/01/2022	06/04/2022	
Cadmium	0.0313	0.0259	0.25	"	"	"	"	"	J
Copper	1.66	0.0806	0.25	"	"	"	"	"	
Lead	2.08	0.031	0.25	"	"	"	"	"	
Nickel	1.52	0.0633	0.25	"	"	"	"	"	
Selenium	ND	0.103	0.25	"	"	"	"	"	
Silver	ND	0.0067	0.25	"	"	"	"	"	
Zinc	8.4	0.534	2.5	"	"	"	"	"	

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 - Latham 21-1

FL-SS-01@4'

4/20/2022 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204454-08 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.100	mg/L	1	B2D2128	04/21/2022	04/22/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2D2602	04/26/2022	04/27/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 81.1 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2D2228	04/22/2022	04/28/2022	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 94.0 % 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 - Latham 21-1

FL-SS-01@4'

4/20/2022 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204454-08 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	101 %		70-130			B2D22 28	04/22/2022	04/28/2022	
Surrogate: 4-Bromofluorobenzene	96.7 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.03		0.499	meq/L	10	[CALC]	04/21/2022	04/22/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L612438	04/23/2022	04/26/2022	
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 - Latham 21-1

FL-SS-01@4'

4/20/2022 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y204454-08 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L612438	04/23/2022	04/26/2022	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	48.8 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	62.5 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	57 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.26			pH Units	1	B2D2202	04/21/2022	04/22/2022	
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SAR by 20B Saturated Paste

SAR	0.128			SAR	1	B2D2127	04/21/2022	04/22/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.191		0.00500	mmhos/cm	1	B2D2201	04/21/2022	04/22/2022	
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Total Metals by 6020B

Arsenic	1.07	0.0855	0.25	mg/Kg	5	L619314	06/01/2022	06/04/2022	
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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 - Latham 21-1

FL-SS-01@4'

4/20/2022 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y204454-08 (Soil)

Total Metals by 6020B

Barium	23.7	0.042	0.25	mg/Kg	5	L619314	06/01/2022	06/04/2022	
Cadmium	0.0277	0.0259	0.25	"	"	"	"	"	J
Copper	1.68	0.0806	0.25	"	"	"	"	"	
Lead	2.44	0.031	0.25	"	"	"	"	"	
Nickel	1.5	0.0633	0.25	"	"	"	"	"	
Selenium	ND	0.103	0.25	"	"	"	"	"	
Silver	ND	0.0067	0.25	"	"	"	"	"	
Zinc	8.34	0.534	2.5	"	"	"	"	"	

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - Latham 21-1

FL-SS-04@6'

4/20/2022 11:36:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204454-09 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.100	mg/L	1	B2D2128	04/21/2022	04/22/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2D2602	04/26/2022	04/27/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	83.1 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2D2228	04/22/2022	04/26/2022	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	111 %		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 - Latham 21-1

FL-SS-04@6'

4/20/2022 11:36:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y204454-09 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	100 %		70-130			B2D22 28	04/22/2022	04/26/2022	
Surrogate: 4-Bromofluorobenzene	97.6 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.99		0.499	meq/L	10	[CALC]	04/21/2022	04/22/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L612438	04/23/2022	04/26/2022	
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 - Latham 21-1

FL-SS-04@6'

4/20/2022 11:36:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y204454-09 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L612438	04/23/2022	04/26/2022	
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	50.5 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	62.4 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	58.7 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.80			pH Units	1	B2D2202	04/21/2022	04/22/2022	
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SAR by 20B Saturated Paste

SAR	0.307			SAR	1	B2D2127	04/21/2022	04/22/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.304		0.00500	mmhos/cm	1	B2D2201	04/21/2022	04/22/2022	
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Total Metals by 6020B

Arsenic	1.46	0.0855	0.25	mg/Kg	5	L619314	06/01/2022	06/04/2022	
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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 - Latham 21-1

FL-SS-04@6'

4/20/2022 11:36:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y204454-09 (Soil)

Total Metals by 6020B

Barium	28.8	0.042	0.25	mg/Kg	5	L619314	06/01/2022	06/04/2022	
Cadmium	0.0436	0.0259	0.25	"	"	"	"	"	J
Copper	2.13	0.0806	0.25	"	"	"	"	"	
Lead	3.1	0.031	0.25	"	"	"	"	"	
Nickel	2.15	0.0633	0.25	"	"	"	"	"	
Selenium	0.103	0.103	0.25	"	"	"	"	"	J
Silver	0.0105	0.0067	0.25	"	"	"	"	"	J
Zinc	10.4	0.534	2.5	"	"	"	"	"	

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - Latham 21-1

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 B2D2228 - EPA 5030 (soil)

Blank (B2D2228-BLK1)

Prepared: 04/22/2022 Analyzed: 04/24/2022

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		92.4	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		111	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.7	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 - Latham 21-1

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 B2D2228 - EPA 5030 (soil)

LCS (B2D2228-BS1)

Prepared: 04/22/2022 Analyzed: 04/24/2022

1,2,4-Trimethylbenzene	0.112	0.00200	mg/kg	0.100		112	70-130			
1,3,5-Trimethylbenzene	0.113	0.00200	"	0.100		113	70-130			
Benzene	0.0841	0.00200	"	0.100		84.1	70-130			
Ethylbenzene	0.119	0.00200	"	0.100		119	70-130			
Naphthalene	0.0961	0.0100	"	0.100		96.1	70-130			
Toluene	0.0989	0.00200	"	0.100		98.9	70-130			
o-Xylene	0.113	0.00200	"	0.100		113	70-130			
m,p-Xylene	0.238	0.00400	"	0.200		119	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.5	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		109	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 - Latham 21-1

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 B2D2228 - EPA 5030 (soil)

Matrix Spike (B2D2228-MS1)	Source: Y204454-01			Prepared: 04/22/2022 Analyzed: 04/24/2022						
1,2,4-Trimethylbenzene	0.113	0.00200	mg/kg	0.100	ND	113	70-130			
1,3,5-Trimethylbenzene	0.114	0.00200	"	0.100	ND	114	70-130			
Benzene	0.0832	0.00200	"	0.100	ND	83.2	70-130			
Ethylbenzene	0.118	0.00200	"	0.100	ND	118	70-130			
Naphthalene	0.0933	0.0100	"	0.100	ND	93.3	70-130			
Toluene	0.0987	0.00200	"	0.100	ND	98.7	70-130			
o-Xylene	0.114	0.00200	"	0.100	ND	114	70-130			
m,p-Xylene	0.237	0.00400	"	0.200	ND	118	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		91.5	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		109	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		106	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 - Latham 21-1

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 B2D2228 - EPA 5030 (soil)

Matrix Spike Dup (B2D2228-MSD1)	Source: Y204454-01			Prepared: 04/22/2022 Analyzed: 04/24/2022						
1,2,4-Trimethylbenzene	0.114	0.00200	mg/kg	0.100	ND	114	70-130	0.0705	20	
1,3,5-Trimethylbenzene	0.114	0.00200	"	0.100	ND	114	70-130	0.386	20	
Benzene	0.0837	0.00200	"	0.100	ND	83.7	70-130	0.599	20	
Ethylbenzene	0.117	0.00200	"	0.100	ND	117	70-130	0.882	20	
Naphthalene	0.0966	0.0100	"	0.100	ND	96.6	70-130	3.56	20	
Toluene	0.0984	0.00200	"	0.100	ND	98.4	70-130	0.284	20	
o-Xylene	0.114	0.00200	"	0.100	ND	114	70-130	0.123	20	
m,p-Xylene	0.234	0.00400	"	0.200	ND	117	70-130	1.20	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.5	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		108	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 - Latham 21-1

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 B2D2602 - EPA 3550B										
Blank (B2D2602-BLK1)										
					Prepared: 04/26/2022 Analyzed: 04/27/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	22		"	24.9		87.0	50-150			

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - Latham 21-1

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 B2D2602 - EPA 3550B										
LCS (B2D2602-BS1)					Prepared: 04/26/2022 Analyzed: 04/27/2022					
Diesel (C10-C28)	870	50.0	mg/kg	1000		87.0	70-130			
Residual Range Organics (C28-C40)	927	200	"	1000		92.7	70-130			
Surrogate: o-Terphenyl	39		"	49.8		77.7	50-150			

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - Latham 21-1

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 B2D2602 - EPA 3550B

Matrix Spike (B2D2602-MS1)	Source: Y204454-01			Prepared: 04/26/2022 Analyzed: 04/27/2022						
Diesel (C10-C28)	920	50.0	mg/kg	1000	ND	92.0	70-130			
Residual Range Organics (C28-C40)	970	200	"	1000	ND	97.0	70-130			
Surrogate: o-Terphenyl	42		"	49.8		84.3	50-150			

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Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - Latham 21-1

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 B2D2602 - EPA 3550B										
Matrix Spike Dup (B2D2602-MSD1)		Source: Y204454-01			Prepared: 04/26/2022 Analyzed: 04/27/2022					
Diesel (C10-C28)	860	50.0	mg/kg	1000	ND	86.0	70-130	6.73	35	
Residual Range Organics (C28-C40)	949	200	"	1000	ND	94.9	70-130	2.18	35	
Surrogate: o-Terphenyl	39		"	49.8		78.8	50-150			

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Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - Latham 21-1

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 B2D2201 - NO PREP

Blank (B2D2201-BLK1)

Prepared: 04/21/2022 Analyzed: 04/22/2022

Specific Conductance (EC) 0.000800 0.00500 mmhos/cm

Duplicate (B2D2201-DUP1)

Source: Y204447-01

Prepared: 04/21/2022 Analyzed: 04/22/2022

Specific Conductance (EC) 0.399 0.00500 mmhos/cm

0.366

8.47

25

Batch B2D2202 - NO PREP

Duplicate (B2D2202-DUP1)

Source: Y204447-01

Prepared: 04/21/2022 Analyzed: 04/22/2022

pH 7.87 pH Units

7.90

0.380

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 - Latham 21-1

**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 L620711 - 3050B

MSD (L 90398-MSD-L620711)		Source: 90398			Prepared: 06/09/2022 Analyzed: 06/11/2022					
Selenium	4.26	0.103	mg/Kg	4.95	0.265	81	75-125	7.6	80	
Zinc	34.6	0.534	"	24.8	11.6	93	75-125	1.7	80	
Silver	0.48	0.0067	"	0.495	0.00879	95	75-125	1.8	80	
Nickel	4.83	0.0633	"	2.48	2.44	97	75-125	3.2	80	
Lead	6.05	0.031	"	2.48	3.76	93	75-125	7.3	80	
Copper	4.93	0.0806	"	2.48	2.61	94	75-125	2.4	80	
Cadmium	0.491	0.0259	"	0.495	0.0446	90	75-125	1.6	80	
Barium	38.8	0.042	"	4.95	34.5	87	75-125	0.7	80	
Arsenic	2.88	0.0855	"	2.48	0.845	82	75-125	5.7	80	

MS (L 90398-MS-L620711)		Source: 90398			Prepared: 06/09/2022 Analyzed: 06/11/2022					
Selenium	4.6	0.103	mg/Kg	4.98	0.265	87	75-125			
Silver	0.471	0.0067	"	0.498	0.00879	93	75-125			
Zinc	35.2	0.534	"	24.9	11.6	95	75-125			
Barium	38.5	0.042	"	4.98	34.5	80	75-125			
Cadmium	0.499	0.0259	"	0.498	0.0446	91	75-125			
Copper	5.05	0.0806	"	2.49	2.61	98	75-125			
Nickel	4.99	0.0633	"	2.49	2.44	103	75-125			
Arsenic	3.05	0.0855	"	2.49	0.845	89	75-125			
Lead	6.51	0.031	"	2.49	3.76	111	75-125			

LCS (LCS-L620711)		Prepared: 06/09/2022 Analyzed: 06/11/2022								
Silver	0.502	0.0067	mg/Kg	0.5		100	80-120			
Zinc	24.1	0.534	"	25		96	80-120			
Selenium	5.22	0.103	"	5		104	80-120			
Nickel	2.54	0.0633	"	2.5		102	80-120			
Lead	2.44	0.031	"	2.5		98	80-120			

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - Latham 21-1

**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 L620711 - 3050B

LCS (LCS-L620711)

Prepared: 06/09/2022 Analyzed: 06/11/2022

Copper	2.46	0.0806	mg/Kg	2.5		98	80-120			
Barium	5.22	0.042	"	5		104	80-120			
Arsenic	2.48	0.0855	"	2.5		99	80-120			
Cadmium	0.495	0.0259	"	0.5		99	80-120			

LRB (LRB-L620711)

Prepared: 06/09/2022 Analyzed: 06/11/2022

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

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - Latham 21-1

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 L619314 - 3050B

MSD (L 85888-MSD-L619314)		Source: 85888			Prepared: 06/01/2022 Analyzed: 06/04/2022					
Silver	0.471	0.0067	mg/Kg	0.46	<0.0067	102	75-125	6.9	80	
Copper	3.14	0.0806	"	2.3	0.736	105	75-125	13.9	80	
Arsenic	2.08	0.0855	"	2.3	0.137	84	75-125	7.8	80	
Barium	11.6	0.042	"	4.6	4.68	150	75-125	9.9	80	*
Cadmium	0.431	0.0259	"	0.46	<0.0259	94	75-125	7.5	80	
Lead	3.71	0.031	"	2.3	0.851	124	75-125	0.5	80	
Selenium	3.68	0.103	"	4.6	<0.103	80	75-125	6.5	80	
Zinc	35.4	0.534	"	23	10.9	107	75-125	8.9	80	
Nickel	2.82	0.0633	"	2.3	0.839	86	75-125	10.1	80	

MS (L 85888-MS-L619314)		Source: 85888			Prepared: 06/01/2022 Analyzed: 06/04/2022					
Lead	3.73	0.031	mg/Kg	2.47	0.851	117	75-125			
Arsenic	2.25	0.0855	"	2.47	0.137	86	75-125			
Nickel	3.12	0.0633	"	2.47	0.839	92	75-125			
Silver	0.505	0.0067	"	0.494	<0.0067	102	75-125			
Barium	10.5	0.042	"	4.94	4.68	118	75-125			
Cadmium	0.465	0.0259	"	0.494	<0.0259	94	75-125			
Copper	3.61	0.0806	"	2.47	0.736	116	75-125			
Zinc	38.7	0.534	"	24.7	10.9	113	75-125			
Selenium	3.93	0.103	"	4.94	<0.103	80	75-125			

LCS (LCS-L619314)		Prepared: 06/01/2022 Analyzed: 06/04/2022								
Silver	0.475	0.0067	mg/Kg	0.5		95	80-120			
Zinc	23	0.534	"	25		92	80-120			
Selenium	4.38	0.103	"	5		88	80-120			
Nickel	2.54	0.0633	"	2.5		102	80-120			
Lead	2.36	0.031	"	2.5		94	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 - Latham 21-1

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 L619314 - 3050B

LCS (LCS-L619314)

Prepared: 06/01/2022 Analyzed: 06/04/2022

Copper	2.48	0.0806	mg/Kg	2.5		99	80-120			
Cadmium	0.479	0.0259	"	0.5		96	80-120			
Barium	4.83	0.042	"	5		97	80-120			
Arsenic	2.29	0.0855	"	2.5		92	80-120			

LRB (LRB-L619314)

Prepared: 06/01/2022 Analyzed: 06/04/2022

Lead	0.0642	0.25	mg/Kg				-			J
Zinc	ND	2.5	"				-			
Barium	ND	0.25	"				-			
Copper	ND	0.25	"				-			
Nickel	ND	0.25	"				-			
Selenium	ND	0.25	"				-			
Silver	ND	0.25	"				-			
Arsenic	ND	0.25	"				-			
Cadmium	ND	0.25	"				-			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - Latham 21-1

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 L612438 - 3550B

MSD (L 90828-MSD-L612438)	Source: 90828			Prepared: 04/23/2022 Analyzed: 04/26/2022						
Acenaphthene	0.115	0.00304	mg/Kg	0.163	0.0185	59.2	30-130	0	30	
Naphthalene	0.16	0.00484	"	0.163	0.0604	61.1	30-130	1.8	30	
Pyrene	0.101	0.00643	"	0.163	0.00716	57.5	30-130	1.4	30	
Benzo(b)fluoranthene	0.0608	0.00585	"	0.163	<0.00585	37.3	30-130	1.4	30	
Anthracene	0.106	0.00334	"	0.163	0.00396	62.6	30-130	6	30	
Chrysene	0.115	0.00624	"	0.163	0.0104	64.1	30-130	1.7	30	
Benzo(a)anthracene	0.1	0.00493	"	0.163	<0.00493	61.3	30-130	1.4	30	
Dibenz(a,h)anthracene	0.0851	0.00614	"	0.163	<0.00614	52.2	30-130	4	30	
Fluoranthene	0.0926	0.00394	"	0.163	<0.00394	56.8	30-130	2	30	
Fluorene	0.144	0.00286	"	0.163	0.0437	61.5	30-130	1.3	30	
Indeno(1,2,3-cd)pyrene	0.0624	0.00627	"	0.163	<0.00627	38.2	30-130	6.7	30	
1-Methylnaphthalene	0.328	0.00364	"	0.163	0.181	90.1	30-130	3.7	30	
2-Methylnaphthalene	0.566	0.00645	"	0.163	0.375	117	30-130	2.6	30	
Benzo(k)fluoranthene	0.103	0.00437	"	0.163	<0.00437	63.1	30-130	0.9	30	
Benzo(a)pyrene	0.102	0.00468	"	0.163	<0.00468	62.5	30-130	3.8	30	
Surrogate: 4-Terphenyl-d14	69.3		"	0.326	213	69.3	33-122			
Surrogate: Nitrobenzene-d5	57.6		"	0.326	187	57.6	29-110			
Surrogate: 2-Fluorobiphenyl	58.2		"	0.326	183	58.2	33-115			

MS (L 90828-MS-L612438)	Source: 90828			Prepared: 04/23/2022 Analyzed: 04/26/2022						
Naphthalene	0.163	0.00484	mg/Kg	0.164	0.0604	62.5	30-130			
Benzo(k)fluoranthene	0.104	0.00437	"	0.164	<0.00437	63.4	30-130			
Benzo(b)fluoranthene	0.0599	0.00585	"	0.164	<0.00585	36.5	30-130			
Benzo(a)pyrene	0.106	0.00468	"	0.164	<0.00468	64.6	30-130			
Dibenz(a,h)anthracene	0.0886	0.00614	"	0.164	<0.00614	54	30-130			
Fluoranthene	0.0945	0.00394	"	0.164	<0.00394	57.6	30-130			
1-Methylnaphthalene	0.316	0.00364	"	0.164	0.181	82.3	30-130			

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Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - Latham 21-1

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 L612438 - 3550B

MS (L 90828-MS-L612438)	Source: 90828			Prepared: 04/23/2022 Analyzed: 04/26/2022						
Fluorene	0.146	0.00286	mg/Kg	0.164	0.0437	62.3	30-130			
Indeno(1,2,3-cd)pyrene	0.0583	0.00627	"	0.164	<0.00627	35.5	30-130			
Chrysene	0.113	0.00624	"	0.164	0.0104	62.5	30-130			
Pyrene	0.0995	0.00643	"	0.164	0.00716	56.3	30-130			
Benzo(a)anthracene	0.0986	0.00493	"	0.164	<0.00493	60.1	30-130			
Anthracene	0.0998	0.00334	"	0.164	0.00396	58.4	30-130			
Acenaphthene	0.115	0.00304	"	0.164	0.0185	58.8	30-130			
2-Methylnaphthalene	0.551	0.00645	"	0.164	0.375	107	30-130			
Surrogate: 2-Fluorobiphenyl	54.1		"	0.329	183	54.1	33-115			
Surrogate: Nitrobenzene-d5	55		"	0.329	187	55	29-110			
Surrogate: 4-Terphenyl-d14	65.3		"	0.329	213	65.3	33-122			

LCS (LCS-L612438)	Prepared: 04/23/2022 Analyzed: 04/26/2022									
Benzo(k)fluoranthene	0.103	0.000437	mg/Kg	0.167		61.6	30-130			
Benzo(b)fluoranthene	0.0865	0.000585	"	0.167		51.7	30-130			
1-Methylnaphthalene	0.0871	0.000364	"	0.167		52.1	30-130			
Acenaphthene	0.0888	0.000304	"	0.167		53.1	30-130			
Anthracene	0.0969	0.000334	"	0.167		58	30-130			
Benzo(a)anthracene	0.101	0.000493	"	0.167		60.4	30-130			
Dibenz(a,h)anthracene	0.121	0.000614	"	0.167		72.4	30-130			
Benzo(a)pyrene	0.102	0.000468	"	0.167		61	30-130			
2-Methylnaphthalene	0.0841	0.000645	"	0.167		50.3	30-130			
Chrysene	0.1	0.000624	"	0.167		59.8	30-130			
Fluoranthene	0.0988	0.000394	"	0.167		59.1	30-130			
Fluorene	0.0923	0.000286	"	0.167		55.2	30-130			
Indeno(1,2,3-cd)pyrene	0.102	0.000627	"	0.167		61	30-130			
Naphthalene	0.0873	0.000484	"	0.167		52.2	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 - Latham 21-1

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 L612438 - 3550B

LCS (LCS-L612438)

Prepared: 04/23/2022 Analyzed: 04/26/2022

Pyrene	0.1	0.000643	mg/Kg	0.167		59.8	30-130			
Surrogate: 2-Fluorobiphenyl	53.7		"	0.333		53.7	33-115			
Surrogate: 4-Terphenyl-d14	71.1		"	0.333		71.1	33-122			
Surrogate: Nitrobenzene-d5	62.1		"	0.333		62.1	29-110			

LRB (LRB-L612438)

Prepared: 04/23/2022 Analyzed: 04/26/2022

1-Methylnaphthalene	ND	0.00067	mg/Kg				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Surrogate: 2-Fluorobiphenyl	53.1		"	0.333		53.1	33-115			
Surrogate: 4-Terphenyl-d14	72		"	0.333		72	33-122			
Surrogate: Nitrobenzene-d5	63.6		"	0.333		63.6	29-110			

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Latham 21-1

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 31, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Bonanza - Latham 21-1

Project Number - [none]

Attached are your analytical results for Bonanza - Latham 21-1 received by Origins Laboratory, Inc. May 03, 2022. This project is associated with Origins project number Y205063-01.

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 - Latham 21-1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@8'	Y205063-01	Soil	May 3, 2022 10:59	05/03/2022 16:30

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 - Latham 21-1

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

Origins Laboratory

Sample Receipt Checklist

Origins Work Order: Y205063 Client: Eagle
 Client Project ID: Latham 21-1

Checklist Completed by: SG Shipped Via: HD
 Date/time completed: 5/4/22 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

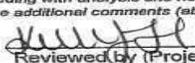
Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____ (Describe)

Cooler Number/Temperature: 1, 0.6 °C 1 °C 1 °C 1 °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"/>			
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 Na ₂ SO ₃ +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)

5/4/22
 Date/Time Reviewed

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 - Latham 21-1

WH-FS-01@8'
5/3/2022 10:59:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205063-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.0999	mg/L	1	B2E0507	05/05/2022	05/06/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2E0501	05/05/2022	05/07/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 109 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2E0503	05/05/2022	05/06/2022	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 99.3 % 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 - Latham 21-1

WH-FS-01@8'
5/3/2022 10:59:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205063-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	97.4 %		70-130			B2E05 03	05/05/2022	05/06/2022	
Surrogate: 4-Bromofluorobenzene	102 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.14		0.499	meq/L	10	[CALC]	05/05/2022	05/06/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.84		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L614658	05/06/2022	05/09/2022	
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 - Latham 21-1

WH-FS-01@8'
5/3/2022 10:59:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y205063-01 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L614658	05/06/2022	05/09/2022	
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	65.9 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	83.2 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	59.8 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.24			pH Units	1	B2E0505	05/05/2022	05/06/2022	
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SAR by 20B Saturated Paste

SAR	2.38			SAR	1	B2E0504	05/05/2022	05/06/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.411		0.00500	mmhos/cm	1	B2E0506	05/05/2022	05/06/2022	
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Total Metals by 6020B

Arsenic	1.64	0.0855	0.25	mg/Kg	5	L617431	05/20/2022	05/24/2022	
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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 - Latham 21-1

WH-FS-01@8'
5/3/2022 10:59:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y205063-01 (Soil)

Total Metals by 6020B

Barium	43.3	0.042	0.25	mg/Kg	5	L617431	05/20/2022	05/24/2022	
Cadmium	0.0502	0.0259	0.25	"	"	"	"	"	J
Copper	3.08	0.0806	0.25	"	"	"	"	"	
Lead	3.7	0.031	0.25	"	"	"	"	"	
Nickel	2.65	0.0633	0.25	"	"	"	"	"	
Selenium	0.135	0.103	0.25	"	"	"	"	"	J
Silver	0.0074	0.0067	0.25	"	"	"	"	"	J
Zinc	14	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.252	0.517	mg/Kg	1	L618590	05/03/2022	05/27/2022	
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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 - Latham 21-1

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 B2E0501 - EPA 3550B										
Blank (B2E0501-BLK1)										
					Prepared: 05/05/2022 Analyzed: 05/06/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	24		"	24.9		96.7	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 - Latham 21-1

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 B2E0501 - EPA 3550B

LCS (B2E0501-BS1)

Prepared: 05/05/2022 Analyzed: 05/06/2022

Diesel (C10-C28)	855	50.0	mg/kg	1000		85.5	70-130			
Residual Range Organics (C28-C40)	917	200	"	1000		91.7	70-130			
Surrogate: o-Terphenyl	47		"	49.8		94.1	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 - Latham 21-1

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 B2E0501 - EPA 3550B

Matrix Spike (B2E0501-MS1)	Source: Y205031-01			Prepared: 05/05/2022 Analyzed: 05/07/2022						
Diesel (C10-C28)	829	50.0	mg/kg	1000	ND	82.9	70-130			
Residual Range Organics (C28-C40)	927	200	"	1000	ND	92.7	70-130			
Surrogate: o-Terphenyl	54		"	49.8		109	50-150			

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - Latham 21-1

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 B2E0501 - EPA 3550B										
Matrix Spike Dup (B2E0501-MSD1)					Source: Y205031-01					Prepared: 05/05/2022 Analyzed: 05/07/2022
Diesel (C10-C28)	871	50.0	mg/kg	1000	ND	87.1	70-130	4.90	35	
Residual Range Organics (C28-C40)	929	200	"	1000	ND	92.9	70-130	0.141	35	
Surrogate: o-Terphenyl	45		"	49.8		90.1	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 - Latham 21-1

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 B2E0503 - EPA 5030 (soil)

Blank (B2E0503-BLK1)

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

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	0.10		"	0.125	83.4		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	101		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	104		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 - Latham 21-1

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 B2E0503 - EPA 5030 (soil)

LCS (B2E0503-BS1)

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

1,2,4-Trimethylbenzene	0.0816	0.00200	mg/kg	0.100		81.6	70-130			
1,3,5-Trimethylbenzene	0.0822	0.00200	"	0.100		82.2	70-130			
Benzene	0.104	0.00200	"	0.100		104	70-130			
Ethylbenzene	0.0955	0.00200	"	0.100		95.5	70-130			
Naphthalene	0.0812	0.0100	"	0.100		81.2	70-130			
Toluene	0.0965	0.00200	"	0.100		96.5	70-130			
o-Xylene	0.0954	0.00200	"	0.100		95.4	70-130			
m,p-Xylene	0.182	0.00400	"	0.200		90.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.10		"	0.125		82.9	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.4	70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - Latham 21-1

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 B2E0503 - EPA 5030 (soil)

Matrix Spike (B2E0503-MS1)	Source: Y205037-01			Prepared: 05/05/2022 Analyzed: 05/05/2022						
1,2,4-Trimethylbenzene	0.0913	0.00200	mg/kg	0.100	ND	91.3	70-130			
1,3,5-Trimethylbenzene	0.100	0.00200	"	0.100	ND	100	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	0.0830	0.0100	"	0.100	0.000960	82.1	70-130			
Toluene	0.102	0.00200	"	0.100	ND	102	70-130			
o-Xylene	0.106	0.00200	"	0.100	ND	106	70-130			
m,p-Xylene	0.208	0.00400	"	0.200	ND	104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		84.6	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	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 - Latham 21-1

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 B2E0503 - EPA 5030 (soil)

Matrix Spike Dup (B2E0503-MSD1)	Source: Y205037-01			Prepared: 05/05/2022 Analyzed: 05/05/2022						
1,2,4-Trimethylbenzene	0.117	0.00200	mg/kg	0.100	ND	117	70-130	24.4	20	QM-07
1,3,5-Trimethylbenzene	0.121	0.00200	"	0.100	ND	121	70-130	18.6	20	
Benzene	0.123	0.00200	"	0.100	ND	123	70-130	19.5	20	
Ethylbenzene	0.126	0.00200	"	0.100	ND	126	70-130	15.3	20	
Naphthalene	0.0920	0.0100	"	0.100	0.000960	91.1	70-130	10.3	20	
Toluene	0.120	0.00200	"	0.100	ND	120	70-130	15.9	20	
o-Xylene	0.122	0.00200	"	0.100	ND	122	70-130	13.3	20	
m,p-Xylene	0.246	0.00400	"	0.200	ND	123	70-130	16.7	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.0	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - Latham 21-1

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2E0505 - NO PREP

Duplicate (B2E0505-DUP1)

Source: Y205046-01

Prepared: 05/05/2022 Analyzed: 05/09/2022

pH	9.70		pH Units		9.86			1.64	25	
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Batch B2E0506 - NO PREP

Blank (B2E0506-BLK1)

Prepared: 05/05/2022 Analyzed: 05/06/2022

Specific Conductance (EC)	0.00100	0.00500	mmhos/cm							
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Duplicate (B2E0506-DUP1)

Source: Y205046-01

Prepared: 05/05/2022 Analyzed: 05/09/2022

Specific Conductance (EC)	0.522	0.00500	mmhos/cm		0.539			3.22	25	
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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 - Latham 21-1

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 L617431 - 3050B

MSD (L 95090-MSD-L617431)		Source: 95090			Prepared: 05/20/2022 Analyzed: 05/24/2022					
Barium	53.5	0.042	mg/Kg	4.78	69.2	NR	75-125	18.3	80	*
Nickel	7.16	0.0633	"	2.39	4.57	108	75-125	9.5	80	
Silver	0.543	0.0067	"	0.478	0.0494	103	75-125	1.1	80	
Selenium	4.28	0.103	"	4.78	0.277	84	75-125	0.9	80	
Zinc	48.2	0.534	"	23.9	26.7	90	75-125	3.5	80	
Cadmium	0.649	0.0259	"	0.478	0.159	102	75-125	4.4	80	
Arsenic	3.24	0.0855	"	2.39	1.7	64	75-125	8	80	*
Copper	14.5	0.0806	"	2.39	12.8	71	75-125	0.6	80	*
Lead	17.1	0.031	"	2.39	17.1	0	75-125	8.5	80	*

MS (L 95090-MS-L617431)		Source: 95090			Prepared: 05/20/2022 Analyzed: 05/24/2022					
Lead	15.7	0.031	mg/Kg	2.37	17.1	NR	75-125			*
Zinc	46.5	0.534	"	23.7	26.7	83	75-125			
Silver	0.537	0.0067	"	0.474	0.0494	103	75-125			
Nickel	6.51	0.0633	"	2.37	4.57	82	75-125			
Copper	14.6	0.0806	"	2.37	12.8	76	75-125			
Cadmium	0.621	0.0259	"	0.474	0.159	97	75-125			
Barium	44.5	0.042	"	4.74	69.2	NR	75-125			*
Arsenic	2.99	0.0855	"	2.37	1.7	54	75-125			*
Selenium	4.32	0.103	"	4.74	0.277	85	75-125			

LCS (LCS-L617431)		Prepared: 05/20/2022 Analyzed: 05/24/2022								
Nickel	2.54	0.0633	mg/Kg	2.5		102	80-120			
Arsenic	2.43	0.0855	"	2.5		97	80-120			
Barium	5.08	0.042	"	5		102	80-120			
Cadmium	0.487	0.0259	"	0.5		97	80-120			
Copper	2.4	0.0806	"	2.5		96	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 - Latham 21-1

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 L617431 - 3050B

LCS (LCS-L617431)

Prepared: 05/20/2022 Analyzed: 05/24/2022

Selenium	5.02	0.103	mg/Kg	5		100	80-120			
Lead	2.52	0.031	"	2.5		101	80-120			
Zinc	25.9	0.534	"	25		104	80-120			
Silver	0.511	0.0067	"	0.5		102	80-120			

LRB (LRB-L617431)

Prepared: 05/20/2022 Analyzed: 05/24/2022

Selenium	ND	0.25	mg/Kg				-			
Silver	ND	0.25	"				-			
Nickel	ND	0.25	"				-			
Lead	ND	0.25	"				-			
Cadmium	ND	0.25	"				-			
Barium	0.0686	0.25	"				-			J
Arsenic	ND	0.25	"				-			
Copper	ND	0.25	"				-			
Zinc	ND	2.5	"				-			

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 - Latham 21-1

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 L618590 -										
DUP (L 86733-DUP)			Source: Y205063-01		Prepared: Analyzed: 05/27/2022					
Chromium, Hexavalent	ND	0.244	mg/Kg		86733		-	0	20	
MS (L 86733-MS)			Source: Y205063-01		Prepared: Analyzed: 05/27/2022					
Chromium, Hexavalent	4.03	0.244	mg/Kg	7.71	86733	52	75-125			*
LCS (LCS)					Prepared: Analyzed: 05/27/2022					
Chromium, Hexavalent	6.84	0.244	mg/Kg	8		86	75-125			
LRB (LRB)					Prepared: Analyzed: 05/27/2022					
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 - Latham 21-1

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 L614658 - 3550B

MSD (L 93120-MSD-L614658)	Source: 93120			Prepared: 05/06/2022 Analyzed: 05/09/2022						
Fluoranthene	0.0959	0.000394	mg/Kg	0.166	<0.000394	57.7	30-130	10	30	
Fluorene	0.0779	0.000286	"	0.166	<0.000286	46.9	30-130	16	30	
Indeno(1,2,3-cd)pyrene	0.0731	0.000627	"	0.166	<0.000627	44	30-130	19.8	30	
Naphthalene	0.0765	0.000484	"	0.166	<0.000484	46	30-130	9.5	30	
Pyrene	0.0962	0.000643	"	0.166	<0.000643	57.9	30-130	11.5	30	
Dibenz(a,h)anthracene	0.093	0.000614	"	0.166	<0.000614	56	30-130	14	30	
Benzo(a)anthracene	0.0971	0.000493	"	0.166	<0.000493	58.4	30-130	10.6	30	
Benzo(b)fluoranthene	0.0893	0.000585	"	0.166	<0.000585	53.7	30-130	7.4	30	
1-Methylnaphthalene	0.0762	0.000364	"	0.166	<0.000364	45.9	30-130	11.7	30	
Chrysene	0.1	0.000624	"	0.166	<0.000624	60.2	30-130	11.3	30	
2-Methylnaphthalene	0.0714	0.000645	"	0.166	<0.000645	43	30-130	12.2	30	
Acenaphthene	0.0773	0.000304	"	0.166	<0.000304	46.5	30-130	13.7	30	
Anthracene	0.0789	0.000334	"	0.166	<0.000334	47.5	30-130	22.9	30	
Benzo(a)pyrene	0.102	0.000468	"	0.166	<0.000468	61.4	30-130	7.5	30	
Benzo(k)fluoranthene	0.104	0.000437	"	0.166	<0.000437	62.6	30-130	13.4	30	
Surrogate: Nitrobenzene-d5	42.5		"	0.331	193	42.5	29-110			
Surrogate: 2-Fluorobiphenyl	40.7		"	0.331	191	40.7	33-115			
Surrogate: 4-Terphenyl-d14	53.4		"	0.331	226	53.4	33-122			

MS (L 93120-MS-L614658)	Source: 93120			Prepared: 05/06/2022 Analyzed: 05/09/2022						
Benzo(k)fluoranthene	0.119	0.000437	mg/Kg	0.163	<0.000437	73	30-130			
Naphthalene	0.0842	0.000484	"	0.163	<0.000484	51.6	30-130			
Indeno(1,2,3-cd)pyrene	0.0892	0.000627	"	0.163	<0.000627	54.7	30-130			
Fluorene	0.0915	0.000286	"	0.163	<0.000286	56.1	30-130			
Fluoranthene	0.106	0.000394	"	0.163	<0.000394	65	30-130			
Pyrene	0.108	0.000643	"	0.163	<0.000643	66.2	30-130			
Chrysene	0.112	0.000624	"	0.163	<0.000624	68.7	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 - Latham 21-1

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 L614658 - 3550B

MS (L 93120-MS-L614658)	Source: 93120		Prepared: 05/06/2022 Analyzed: 05/09/2022							
1-Methylnaphthalene	0.0857	0.000364	mg/Kg	0.163	<0.000364	52.5	30-130			
Benzo(a)pyrene	0.11	0.000468	"	0.163	<0.000468	67.4	30-130			
Benzo(a)anthracene	0.108	0.000493	"	0.163	<0.000493	66.2	30-130			
Anthracene	0.0994	0.000334	"	0.163	<0.000334	60.9	30-130			
Acenaphthene	0.0887	0.000304	"	0.163	<0.000304	54.4	30-130			
2-Methylnaphthalene	0.0807	0.000645	"	0.163	<0.000645	49.5	30-130			
Benzo(b)fluoranthene	0.0962	0.000585	"	0.163	<0.000585	59	30-130			
Dibenz(a,h)anthracene	0.107	0.000614	"	0.163	<0.000614	65.6	30-130			
Surrogate: Nitrobenzene-d5	48.1		"	0.326	193	48.1	29-110			
Surrogate: 4-Terphenyl-d14	62.5		"	0.326	226	62.5	33-122			
Surrogate: 2-Fluorobiphenyl	49		"	0.326	191	49	33-115			

LCS (LCS-L614658)	Prepared: 05/06/2022 Analyzed: 05/09/2022									
Chrysene	0.131	0.000624	mg/Kg	0.167		78.4	30-130			
Dibenz(a,h)anthracene	0.144	0.000614	"	0.167		86.2	30-130			
Fluorene	0.116	0.000286	"	0.167		69.4	30-130			
Naphthalene	0.11	0.000484	"	0.167		65.8	30-130			
Benzo(k)fluoranthene	0.142	0.000437	"	0.167		85	30-130			
Pyrene	0.129	0.000643	"	0.167		77.2	30-130			
Fluoranthene	0.127	0.000394	"	0.167		76	30-130			
1-Methylnaphthalene	0.107	0.000364	"	0.167		64	30-130			
Benzo(a)pyrene	0.128	0.000468	"	0.167		76.6	30-130			
Benzo(a)anthracene	0.131	0.000493	"	0.167		78.4	30-130			
Anthracene	0.119	0.000334	"	0.167		71.2	30-130			
Acenaphthene	0.115	0.000304	"	0.167		68.8	30-130			
2-Methylnaphthalene	0.104	0.000645	"	0.167		62.2	30-130			
Indeno(1,2,3-cd)pyrene	0.127	0.000627	"	0.167		76	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 - Latham 21-1

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 L614658 - 3550B

LCS (LCS-L614658)

Prepared: 05/06/2022 Analyzed: 05/09/2022

Benzo(b)fluoranthene	0.129	0.000585	mg/Kg	0.167		77.2	30-130			
Surrogate: Nitrobenzene-d5	62.1		"	0.333		62.1	29-110			
Surrogate: 4-Terphenyl-d14	73.5		"	0.333		73.5	33-122			
Surrogate: 2-Fluorobiphenyl	64.8		"	0.333		64.8	33-115			

LRB (LRB-L614658)

Prepared: 05/06/2022 Analyzed: 05/09/2022

Chrysene	ND	0.00067	mg/Kg				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	64.8		"	0.333		64.8	29-110			
Surrogate: 4-Terphenyl-d14	75.9		"	0.333		75.9	33-122			
Surrogate: 2-Fluorobiphenyl	66.3		"	0.333		66.3	33-115			

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Latham 21-1

Notes and Definitions

U Sample is Non-Detect.

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

J Estimated Value. Analyte below reported quantitation limit.

* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



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



May 16, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Bonanza - Latham 21-1

Project Number - [none]

Attached are your analytical results for Bonanza - Latham 21-1 received by Origins Laboratory, Inc. May 03, 2022. This project is associated with Origins project number Y205064-01.

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

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

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

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

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

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



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

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Latham 21-1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Background-01@1'	Y205064-01	Soil	May 3, 2022 11:02	05/03/2022 16:30
Background-02@1'	Y205064-02	Soil	May 3, 2022 11:06	05/03/2022 16:30

Origins Laboratory, Inc.



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

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

Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - Latham 21-1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y205064

Client: Eagle

Client Project ID: Latham 21-1

Checklist Completed by: SG

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

Date/time completed: 5/4/12

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 0.6 °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 ≤ 5°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 Na ₂ SO ₂ +NaOH, ZnAc+NaOH)		<input checked="" 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.

[Signature]
 Reviewed by (Project Manager)

5/4/12
 Date/Time Reviewed

Origins Laboratory, Inc.

[Signature]

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 - Latham 21-1

Background-01@1'
5/3/2022 11:02:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205064-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.101	mg/L	1	B2E0507	05/05/2022	05/06/2022	
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Metals by Saturated Paste by EPA 6010

Calcium	0.913		0.499	meq/L	10	[CALC]	05/05/2022	05/06/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.22			pH Units	1	B2E0505	05/05/2022	05/06/2022	
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SAR by 20B Saturated Paste

SAR	0.129			SAR	1	B2E0504	05/05/2022	05/06/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.178		0.00500	mmhos/cm	1	B2E0506	05/05/2022	05/06/2022	
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Total Metals by 6020B

Arsenic	0.846	0.0855	0.25	mg/Kg	5	L615238	05/10/2022	05/11/2022	
Barium	18	0.042	0.25	"	"	"	"	"	
Cadmium	0.0494	0.0259	0.25	"	"	"	"	"	J
Copper	2.5	0.0806	0.25	"	"	"	"	"	

Origins Laboratory, Inc.



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

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

Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - Latham 21-1

Background-01@1'
5/3/2022 11:02:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y205064-01 (Soil)

Total Metals by 6020B

Lead	2.75	0.031	0.25	mg/Kg	5	L615238	05/10/2022	05/11/2022	
Nickel	1.18	0.0633	0.25	"	"	"	"	"	
Selenium	0.280	0.103	0.25	"	"	"	"	"	
Silver	ND	0.0067	0.25	"	"	"	"	"	
Zinc	12	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L615728	05/03/2022	05/12/2022	
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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 - Latham 21-1

Background-02@1'
5/3/2022 11:06:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205064-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.429		0.102	mg/L	1	B2E0507	05/05/2022	05/06/2022	
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Metals by Saturated Paste by EPA 6010

Calcium	2.15		0.499	meq/L	10	[CALC]	05/05/2022	05/06/2022	
Magnesium	1.35		0.823	"	"	"	"	"	
Sodium	0.779		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.39			pH Units	1	B2E0505	05/05/2022	05/06/2022	
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SAR by 20B Saturated Paste

SAR	0.589			SAR	1	B2E0504	05/05/2022	05/06/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.420		0.00500	mmhos/cm	1	B2E0506	05/05/2022	05/06/2022	
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Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L615729	05/03/2022	05/12/2022	
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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 - Latham 21-1

Background-02@1'
5/3/2022 11:06:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y205064-02 (Soil)

Total Metals by 6020B

Arsenic	2.18	0.0855	0.25	mg/Kg	5	L615238	05/10/2022	05/11/2022	
Barium	73.7	0.042	0.25	"	"	"	"	"	
Cadmium	0.101	0.0259	0.25	"	"	"	"	"	J
Copper	6.76	0.0806	0.25	"	"	"	"	"	
Lead	6.34	0.031	0.25	"	"	"	"	"	
Nickel	6.42	0.0633	0.25	"	"	"	"	"	
Selenium	0.517	0.103	0.25	"	"	"	"	"	
Silver	0.0183	0.0067	0.25	"	"	"	"	"	J
Zinc	28.2	0.534	2.5	"	"	"	"	"	

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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 - Latham 21-1

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2E0505 - NO PREP										
Duplicate (B2E0505-DUP1)		Source: Y205046-01			Prepared: 05/05/2022 Analyzed: 05/09/2022					
pH	9.70		pH Units		9.86			1.64	25	
Batch B2E0506 - NO PREP										
Blank (B2E0506-BLK1)		Prepared: 05/05/2022 Analyzed: 05/06/2022								
Specific Conductance (EC)	0.00100	0.00500	mmhos/cm							
Duplicate (B2E0506-DUP1)		Source: Y205046-01			Prepared: 05/05/2022 Analyzed: 05/09/2022					
Specific Conductance (EC)	0.522	0.00500	mmhos/cm		0.539			3.22	25	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - Latham 21-1

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 L615729 -										
DUP (L 86770-DUP)		Source: Y205064-02			Prepared: Analyzed: 05/12/2022					
Chromium, Hexavalent	ND	0.249	mg/Kg		86770		-	0	20	
MS (L 86770-MS)		Source: Y205064-02			Prepared: Analyzed: 05/12/2022					
Chromium, Hexavalent	4.95	0.245	mg/Kg	8.05	86770	61	75-125			*
LCS (LCS)		Prepared: Analyzed: 05/12/2022								
Chromium, Hexavalent	7.25	0.244	mg/Kg	8		91	75-125			
LRB (LRB)		Prepared: Analyzed: 05/12/2022								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
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Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - Latham 21-1

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 L615238 - 3050B

MSD (L 86789-MSD-L615238)		Source: 86789			Prepared: 05/10/2022 Analyzed: 05/11/2022					
Selenium	4.23	0.103	mg/Kg	4.92	0.317	80	75-125	2.1	80	
Arsenic	3.6	0.0855	"	2.46	1.66	79	75-125	5.1	80	
Silver	0.487	0.0067	"	0.492	0.0202	95	75-125	2.6	80	
Nickel	5.41	0.0633	"	2.46	4.09	54	75-125	0	80	*
Lead	6.52	0.031	"	2.46	4.61	78	75-125	0.7	80	
Copper	5.81	0.0806	"	2.46	5.27	22	75-125	5	80	*
Cadmium	0.547	0.0259	"	0.492	0.159	79	75-125	2.7	80	
Barium	197	0.042	"	4.92	858	NR	75-125	5.2	80	*
Zinc	39.3	0.534	"	24.6	18.3	85	75-125	1	80	

MS (L 86789-MS-L615238)		Source: 86789			Prepared: 05/10/2022 Analyzed: 05/11/2022					
Silver	0.5	0.0067	mg/Kg	0.489	0.0202	98	75-125			
Arsenic	3.42	0.0855	"	2.45	1.66	72	75-125			*
Barium	187	0.042	"	4.89	858	NR	75-125			*
Cadmium	0.562	0.0259	"	0.489	0.159	82	75-125			
Copper	6.11	0.0806	"	2.45	5.27	34	75-125			*
Lead	6.57	0.031	"	2.45	4.61	80	75-125			
Nickel	5.41	0.0633	"	2.45	4.09	54	75-125			*
Selenium	4.32	0.103	"	4.89	0.317	82	75-125			
Zinc	38.9	0.534	"	24.5	18.3	84	75-125			

LCS (LCS-L615238)					Prepared: 05/10/2022 Analyzed: 05/11/2022					
Cadmium	0.478	0.0259	mg/Kg	0.5		96	80-120			
Copper	2.4	0.0806	"	2.5		96	80-120			
Lead	2.46	0.031	"	2.5		98	80-120			
Nickel	2.36	0.0633	"	2.5		94	80-120			
Selenium	4.82	0.103	"	5		96	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 - Latham 21-1

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 L615238 - 3050B

LCS (LCS-L615238)

Prepared: 05/10/2022 Analyzed: 05/11/2022

Silver	0.5	0.0067	mg/Kg	0.5		100	80-120			
Zinc	23.8	0.534	"	25		95	80-120			
Barium	4.83	0.042	"	5		97	80-120			
Arsenic	2.46	0.0855	"	2.5		98	80-120			

LRB (LRB-L615238)

Prepared: 05/10/2022 Analyzed: 05/11/2022

Barium	0.0515	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	"				-			

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Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - Latham 21-1

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 L615728 -										
DUP (L 86740-DUP)		Source: 86740			Prepared: Analyzed: 05/12/2022					
Chromium, Hexavalent	ND	0.492	mg/Kg		86740		-	0	20	
MS (L 86740-MS)		Source: 86740			Prepared: Analyzed: 05/12/2022					
Chromium, Hexavalent	6.12	0.488	mg/Kg	7.8	86740	78	75-125			

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Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Bonanza - Latham 21-1

Notes and Definitions

J Estimated Value. Analyte below reported quantitation limit.

* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



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