

## Wellhead Closure Checklist

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

Additional attachments (optional):	Pit Closure —	Tank Battery Closure 6-3-22	Flowline Closure N/A	Partially Buried Vault Closure N/A
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Site Name & COGCC Facility Number: Dutch Lake #09-114	Date: 6-3-22	Remediation Project #: 22792
Associated Wells: 2 05-123-33450	Age of Site: years	Number of Photos Attached: 2
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple) 40.495811 / -104.292017		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: *220'*

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	05-123-33450					
Age	years					
Condition of surface around wellhead	Good - Per Crew					
PID Readings	N/A - Excavated upon arrival					
Condition of subsurface (saturation, odor)	Good - no staining, no odor					
PID Readings	2.1	1.2	1.9	2.3	2.6	
Sample taken? Location/Sample ID#	WH-SS-01	WH-SS-02	WH-SS-03	WH-SS-04	WH-FS-01	
Photo Number(s)	See photolog					

Other observations regarding wellheads:

### Summary

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

Total number of samples field screened: *5* Total number of samples collected: *5*

Highest PID Reading: *2.6* Total number of samples submitted to lab for analysis: *1*

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:

## Tank Battery Closure Checklist

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

Additional attachments (optional):	Pit Closure —	Wellhead Closure 6-3-22	Flowline Closure N/A	Partially Buried Vault Closure N/A
Site Name & COGCC Facility Number: Dutch Lake #09-114		Date: 6-3-22		Remediation Project #: 22792
Associated Wells: 2 05-123-33450		Age of Site: years		Number of Photos Attached: 6
Location: (GPS coordinates of southeaster berm) 40.495891 / -104.292477				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

#### Tanks

Tank Contents	Crude	Crude	Crude	Water	ECD KO				
Size (barrels)					UNK				
Age	years →								
Construction	Steel	Steel	Steel	Steel	UNK				
Tank type	AST	AST	AST	AST					
Visual Integrity	Good - Per Crew →								
Condition of tank	Good →								
PID Readings	N/A →								
Soil impacts present at valves or hatches?	None observed →								
PID Readings	3.1	2.7	3.4	2.9	3.1				
Sample taken? Location/ Sample ID#	TB-SS-01	TB-SS-02	TB-SS-03	TB-SS-04	TB-SS-07				
Photo Number(s)	See photolog								

Other observations regarding tanks:

Tanks removed prior to assessment

#### Separators

Separator size									
Vertical or Horizontal	Horizontal								
Age	years								
Soil impacts	None observed								
PID Readings	4.4								
Sample taken? Location/ Sample ID#	TB-SS-05								
Photo Number(s)	See photolog								

Other observations regarding separators:

#### Third Party Equipment

Type	Meter House								
Age	years								

Third Party									
Removal Date	TBD								
Sample taken?	TB-SS-09								
PID Readings	1.8								
Photo Number(s)	See photolog								

**Other Facility Equipment**

Equipment type	Pump Jack	Electrical Rack	ECD	Flare	Pump Jack VFD
Equipment Condition	Good				
Age	years				
Soil impacts	none observed				
PID Readings	2.6	2.2	2.3	1.1	1.4
Sample taken?	TB-SS-06	TB-SS-08	TB-SS-10	TB-SS-11	TB-SS-12
Photo Number(s)					

Other observations regarding other facility or third party equipment:

See photolog

**Summary**

Was impacted soil identified?	
<input checked="" type="radio"/> No	<input type="radio"/> Yes - less than 10 cubic yards <input type="radio"/> Yes - more than 10 cubic yards
Total number of samples field screened: 12	Total number of samples collected: 12
Highest PID Reading: 4.4	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: N/A	Volume of soil removed:
Is additional investigation required? N/A	
Was groundwater encountered during the investigation?	
<input checked="" type="radio"/> No	<input type="radio"/> Yes - not impacted or in contact with impacted soils <input type="radio"/> 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**

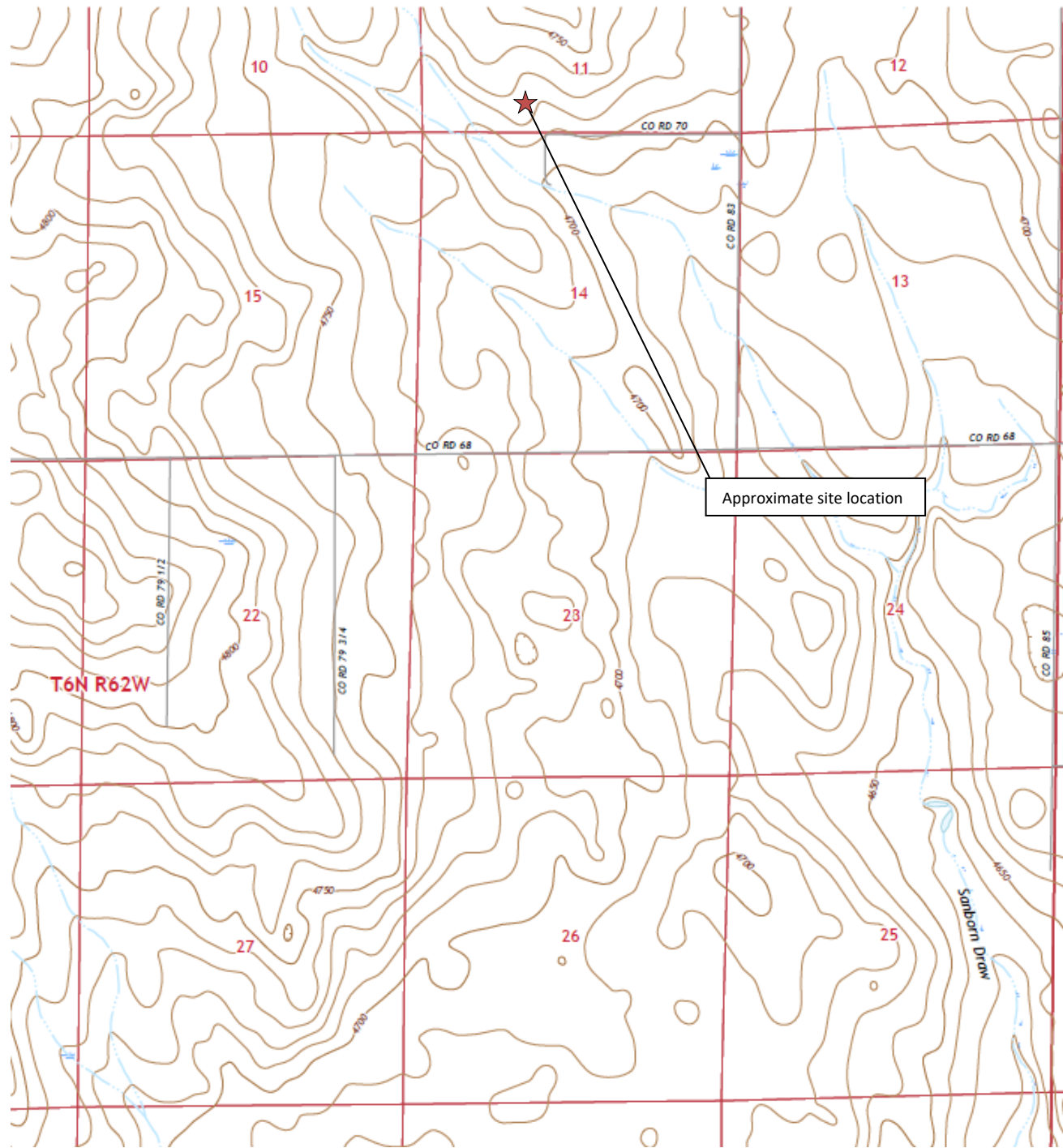
**Figure 1: Topographic Site Location Map**

**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**  
 Dutch Lake #09-11H  
 Closure Assessment  
 40.495808 / -104.292014  
 SE¼ SW¼ SEC.11 T6N R62W 6PM  
 Weld County, Colorado  
 Location ID 422932 / API # 05-123-133450  
 Remediation # 22792



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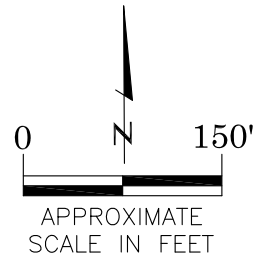
Source: USGS 7.5 Minute Topographic Map, Point of Rocks, CO Quadrangle 2019

**Figure 1**



**LEGEND**

- APPROXIMATE FACILITY BOUNDARIES (AS OF 2013)
- FORMER DUTCH LAKE #09-11H WELL HEAD (PLUGGED AND ABANDONED)



AERIAL SITE LOCATION MAP  
 DUTCH LAKE #09-11H  
 CLOSURE ASSESSMENT  
 40.495808 / -104.292014  
 SE¼ SW¼ SEC.11 T6N R62W 6PM  
 WELD COUNTY, COLORADO  
 LOCATION ID 422932 / API # 05-123-33450  
 REMEDIATION # 1844422792

DATE: 10/03/22

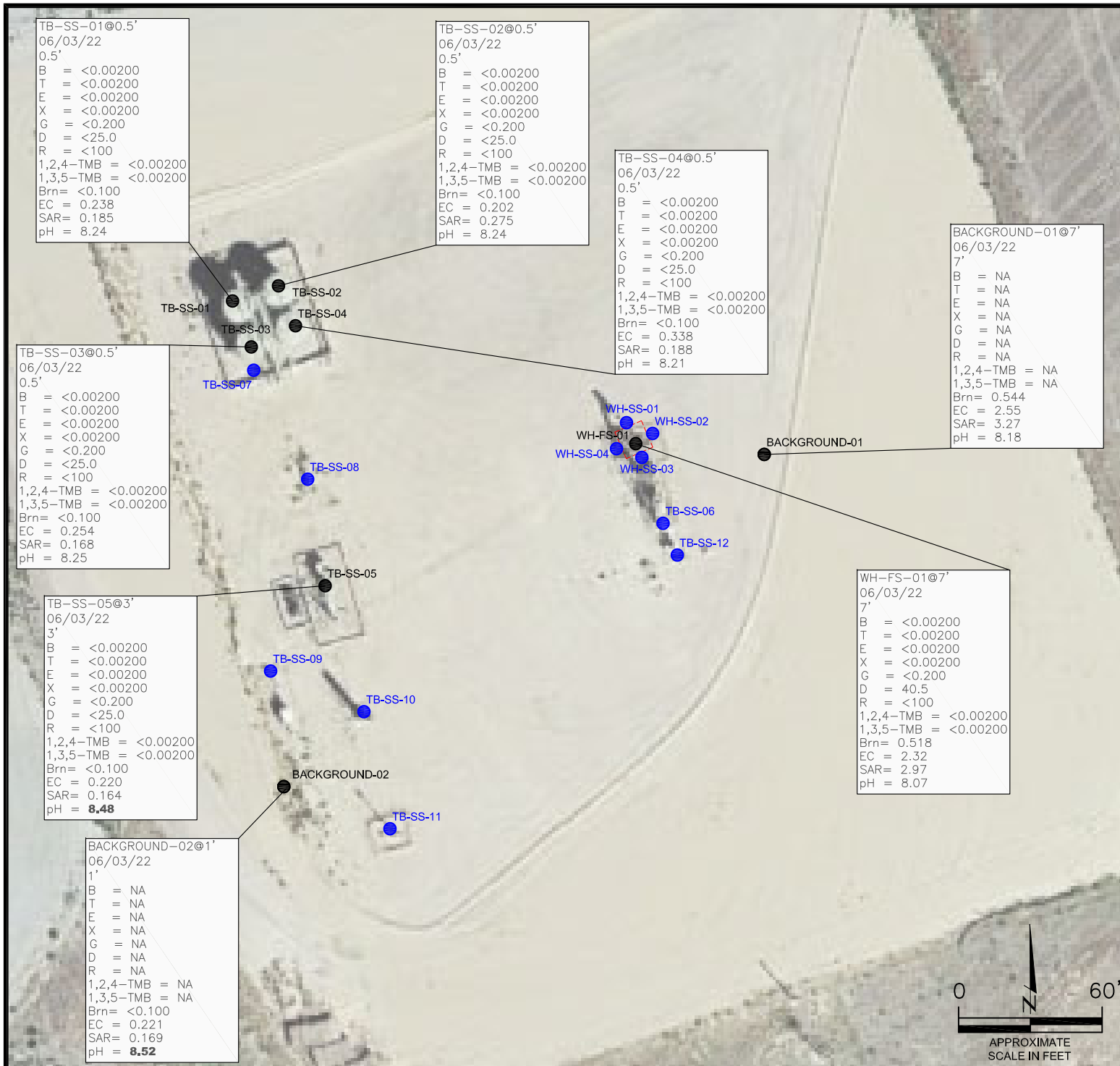
FIG. NO. 2  
DRAWN BY: TC



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8000 W 44th Ave, Wheat Ridge, CO 80033  
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**LEGEND**

- - - - WELLHEAD ASSESSMENT BOUNDARIES
- APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED, ONLY, WITH PHOTOIONIZATION DETECTOR
- APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS

**PARAMETERS**

<b>SAMPLE LOCATION</b>	
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

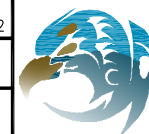
**NOTES:**  
 VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT OR ABOVE LABORATORY DETECTION LIMITS

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

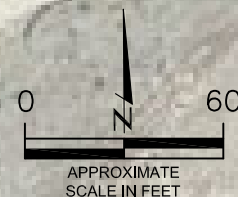
COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

SOIL ANALYTICAL MAP  
 DUTCH LAKE #09-11H  
 CLOSURE ASSESSMENT  
 40.495808 / -104.292014  
 SE¼ SW¼ SEC.11 T6N R62W 6PM  
 WELD COUNTY, COLORADO  
 LOCATION ID 422932 / API # 05-123-33450  
 REMEDIATION # 1844422792

DATE:  
10/03/22  
 DRAWN BY:  
TC  
 FIG.  
NO. 3



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TB-SS-01@0.5'  
06/03/22  
0.5'  
ND = <0.00067  
1-Methylnaphthalene = ND  
2-Methylnaphthalene = ND  
Acenaphthene = ND  
Anthracene = ND  
Benzo(a)anthracene = ND  
Benzo(a)pyrene = ND  
Benzo(b)fluoranthene = ND  
Benzo(k)fluoranthene = ND  
Chrysene = ND  
Dibenzo(a,h)anthracene = ND  
Fluoranthene = ND  
Fluorene = ND  
Indeno(1,2,3-CD)pyrene = ND  
Naphthalene = ND  
Pyrene = ND

TB-SS-02@0.5'  
06/03/22  
0.5'  
ND = <0.00067  
1-Methylnaphthalene = ND  
2-Methylnaphthalene = ND  
Acenaphthene = ND  
Anthracene = ND  
Benzo(a)anthracene = ND  
Benzo(a)pyrene = ND  
Benzo(b)fluoranthene = ND  
Benzo(k)fluoranthene = ND  
Chrysene = ND  
Dibenzo(a,h)anthracene = ND  
Fluoranthene = ND  
Fluorene = ND  
Indeno(1,2,3-CD)pyrene = ND  
Naphthalene = ND  
Pyrene = ND

TB-SS-04@0.5'  
06/03/22  
0.5'  
ND = <0.00067  
1-Methylnaphthalene = ND  
2-Methylnaphthalene = ND  
Acenaphthene = ND  
Anthracene = ND  
Benzo(a)anthracene = ND  
Benzo(a)pyrene = ND  
Benzo(b)fluoranthene = ND  
Benzo(k)fluoranthene = ND  
Chrysene = ND  
Dibenzo(a,h)anthracene = ND  
Fluoranthene = ND  
Fluorene = ND  
Indeno(1,2,3-CD)pyrene = ND  
Naphthalene = ND  
Pyrene = ND

TB-SS-03@0.5'  
06/03/22  
0.5'  
ND = <0.00067  
1-Methylnaphthalene = ND  
2-Methylnaphthalene = ND  
Acenaphthene = ND  
Anthracene = ND  
Benzo(a)anthracene = ND  
Benzo(a)pyrene = ND  
Benzo(b)fluoranthene = ND  
Benzo(k)fluoranthene = ND  
Chrysene = ND  
Dibenzo(a,h)anthracene = ND  
Fluoranthene = ND  
Fluorene = ND  
Indeno(1,2,3-CD)pyrene = ND  
Naphthalene = ND  
Pyrene = ND

WH-FS-01@7'  
06/03/22  
7'  
ND = <0.00335  
1-Methylnaphthalene = ND  
2-Methylnaphthalene = ND  
Acenaphthene = ND  
Anthracene = ND  
Benzo(a)anthracene = ND  
Benzo(a)pyrene = ND  
Benzo(b)fluoranthene = ND  
Benzo(k)fluoranthene = ND  
Chrysene = 0.00333  
Dibenzo(a,h)anthracene = ND  
Fluoranthene = ND  
Fluorene = ND  
Indeno(1,2,3-CD)pyrene = ND  
Naphthalene = ND  
Pyrene = ND

TB-SS-05@3'  
06/03/22  
3'  
ND = <0.00067  
1-Methylnaphthalene = ND  
2-Methylnaphthalene = ND  
Acenaphthene = ND  
Anthracene = ND  
Benzo(a)anthracene = ND  
Benzo(a)pyrene = ND  
Benzo(b)fluoranthene = ND  
Benzo(k)fluoranthene = ND  
Chrysene = ND  
Dibenzo(a,h)anthracene = ND  
Fluoranthene = ND  
Fluorene = ND  
Indeno(1,2,3-CD)pyrene = ND  
Naphthalene = ND  
Pyrene = ND

LEGEND

- WELLHEAD ASSESSMENT BOUNDARIES
- 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

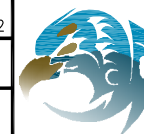
NOTES:  
VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT OR ABOVE LABORATORY DETECTION LIMITS

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

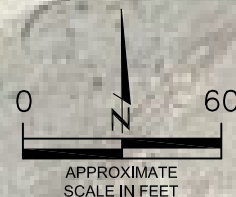
COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

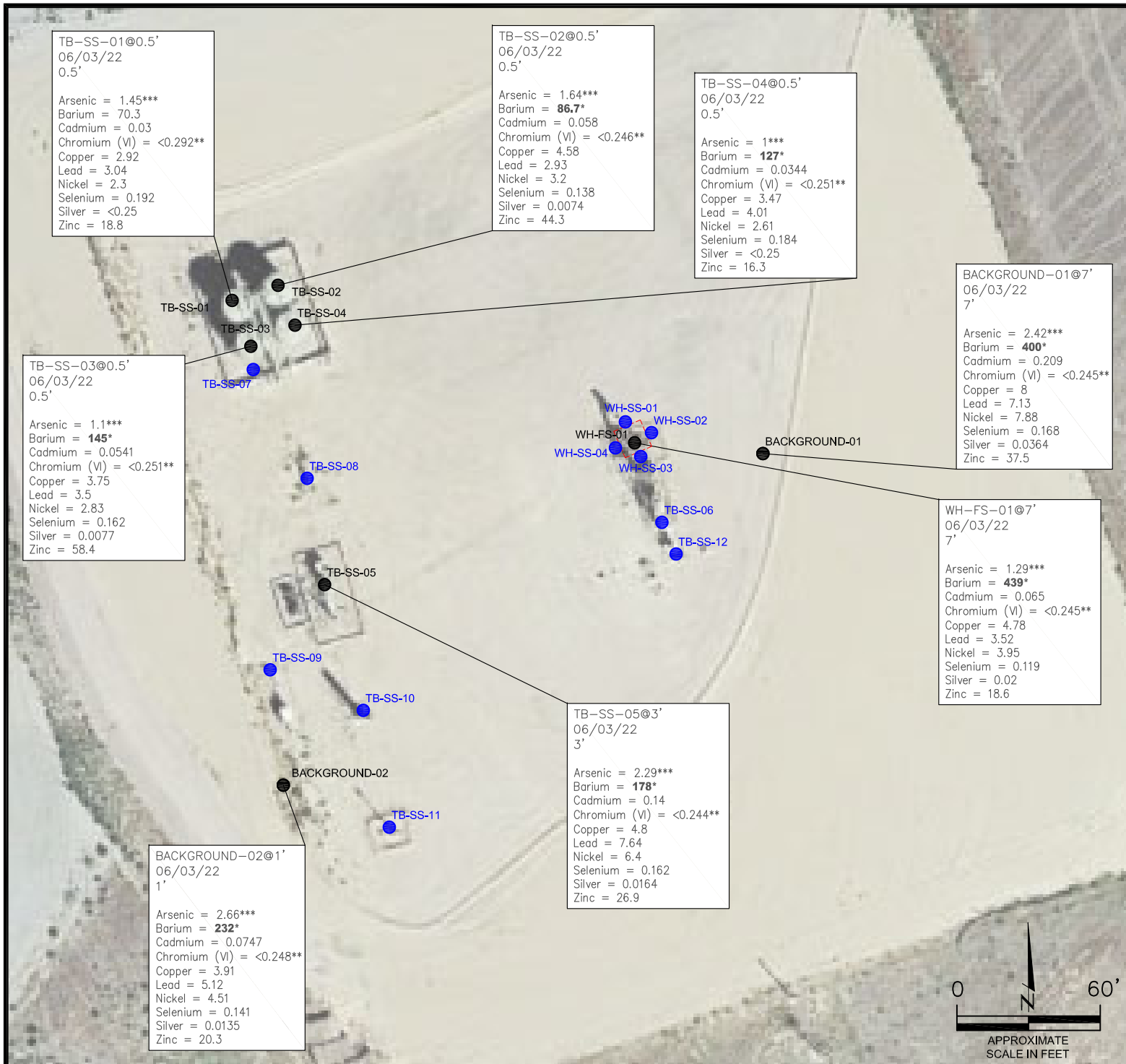
POLYCYCLIC AROMATIC HYDROCARBONS MAP  
DUTCH LAKE #09-11H  
CLOSURE ASSESSMENT  
40.495808 / -104.292014  
SE¼ SW¼ SEC.11 T6N R62W 6PM  
WELD COUNTY, COLORADO  
LOCATION ID 422932 / API # 05-123-33450  
REMIEDIATION # 1844422792

DATE:  
10/03/22  
DRAWN BY:  
TC  
FIG.  
NO. 4



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TB-SS-01@0.5'  
06/03/22  
0.5'

Arsenic = 1.45\*\*\*  
Barium = 70.3  
Cadmium = 0.03  
Chromium (VI) = <0.292\*\*  
Copper = 2.92  
Lead = 3.04  
Nickel = 2.3  
Selenium = 0.192  
Silver = <0.25  
Zinc = 18.8

TB-SS-02@0.5'  
06/03/22  
0.5'

Arsenic = 1.64\*\*\*  
Barium = **86.7\***  
Cadmium = 0.058  
Chromium (VI) = <0.246\*\*  
Copper = 4.58  
Lead = 2.93  
Nickel = 3.2  
Selenium = 0.138  
Silver = 0.0074  
Zinc = 44.3

TB-SS-04@0.5'  
06/03/22  
0.5'

Arsenic = 1\*\*\*  
Barium = **127\***  
Cadmium = 0.0344  
Chromium (VI) = <0.251\*\*  
Copper = 3.47  
Lead = 4.01  
Nickel = 2.61  
Selenium = 0.184  
Silver = <0.25  
Zinc = 16.3

BACKGROUND-01@7'  
06/03/22  
7'

Arsenic = 2.42\*\*\*  
Barium = **400\***  
Cadmium = 0.209  
Chromium (VI) = <0.245\*\*  
Copper = 8  
Lead = 7.13  
Nickel = 7.88  
Selenium = 0.168  
Silver = 0.0364  
Zinc = 37.5

TB-SS-03@0.5'  
06/03/22  
0.5'

Arsenic = 1.1\*\*\*  
Barium = **145\***  
Cadmium = 0.0541  
Chromium (VI) = <0.251\*\*  
Copper = 3.75  
Lead = 3.5  
Nickel = 2.83  
Selenium = 0.162  
Silver = 0.0077  
Zinc = 58.4

WH-FS-01@7'  
06/03/22  
7'

Arsenic = 1.29\*\*\*  
Barium = **439\***  
Cadmium = 0.065  
Chromium (VI) = <0.245\*\*  
Copper = 4.78  
Lead = 3.52  
Nickel = 3.95  
Selenium = 0.119  
Silver = 0.02  
Zinc = 18.6

TB-SS-05@3'  
06/03/22  
3'

Arsenic = 2.29\*\*\*  
Barium = **178\***  
Cadmium = 0.14  
Chromium (VI) = <0.244\*\*  
Copper = 4.8  
Lead = 7.64  
Nickel = 6.4  
Selenium = 0.162  
Silver = 0.0164  
Zinc = 26.9

BACKGROUND-02@1'  
06/03/22  
1'

Arsenic = 2.66\*\*\*  
Barium = **232\***  
Cadmium = 0.0747  
Chromium (VI) = <0.248\*\*  
Copper = 3.91  
Lead = 5.12  
Nickel = 4.51  
Selenium = 0.141  
Silver = 0.0135  
Zinc = 20.3

**LEGEND**

- WELLHEAD ASSESSMENT BOUNDARIES
- 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)  
Barium = (mg/kg)  
Cadmium = (mg/kg)  
Chromium (VI) = (mg/kg)  
Copper = (mg/kg)  
Lead = (mg/kg)  
Nickel = (mg/kg)  
Selenium = (mg/kg)  
Silver = (mg/kg)  
Zinc = (mg/kg)

mg/kg = MILLIGRAMS PER KILOGRAM

NOTES:  
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 REGULATORY LIMITS.

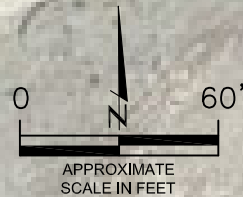
VALUES PRESENTED WITH ASTERISK (\*) EXCEED COGCC TABLE 915-1 PROTECTION OF GROUNDWATER SOIL SCREENING LEVELS.

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

\*\*\*ARSENIC IS NATURALLY OCCURRING IN COLORADO. LOCAL "CLEAN-UP LEVEL" (3.18 mg/kg) IS 1.25\*BACKGROUND AVERAGE (2.54 mg/kg).

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

METALS IN SOIL MAP  
DUTCH LAKE #09-11H  
CLOSURE ASSESSMENT  
40.495808 / -104.292014  
SE¼ SW¼ SEC.11 T6N R62W 6PM  
WELD COUNTY, COLORADO  
LOCATION ID 422932 / API # 05-123-33450  
REMEDICATION # 1844422792



DATE:  
10/03/22  
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**



## **ATTACHMENT A**

### **Photo Log**

Dutch Lake #09-11H

Location ID 422932

API # 05-123-33450

Remediation # 22792

Closure Assessment

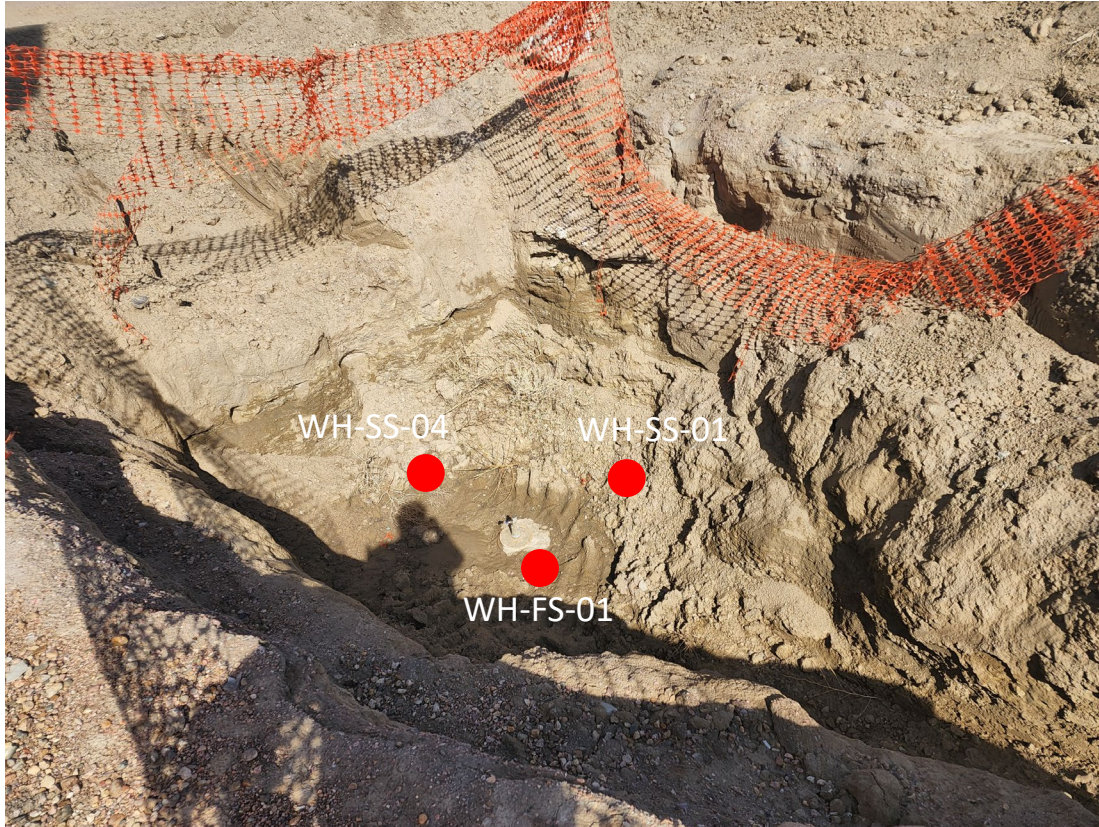
June 2022



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# Wellhead Excavation - 06/03/22



Looking northwest

Wellhead cut/cap excavation

No petroleum hydrocarbon staining or odor observed

Samples collected:

WH-SS-01@4' – 2.1 ppm-v

WH-SS-04@4' – 2.3 ppm-v

WH-FS-01@5' – 2.6 ppm-v (lab analyzed)



Looking southeast

Wellhead cut/cap excavation

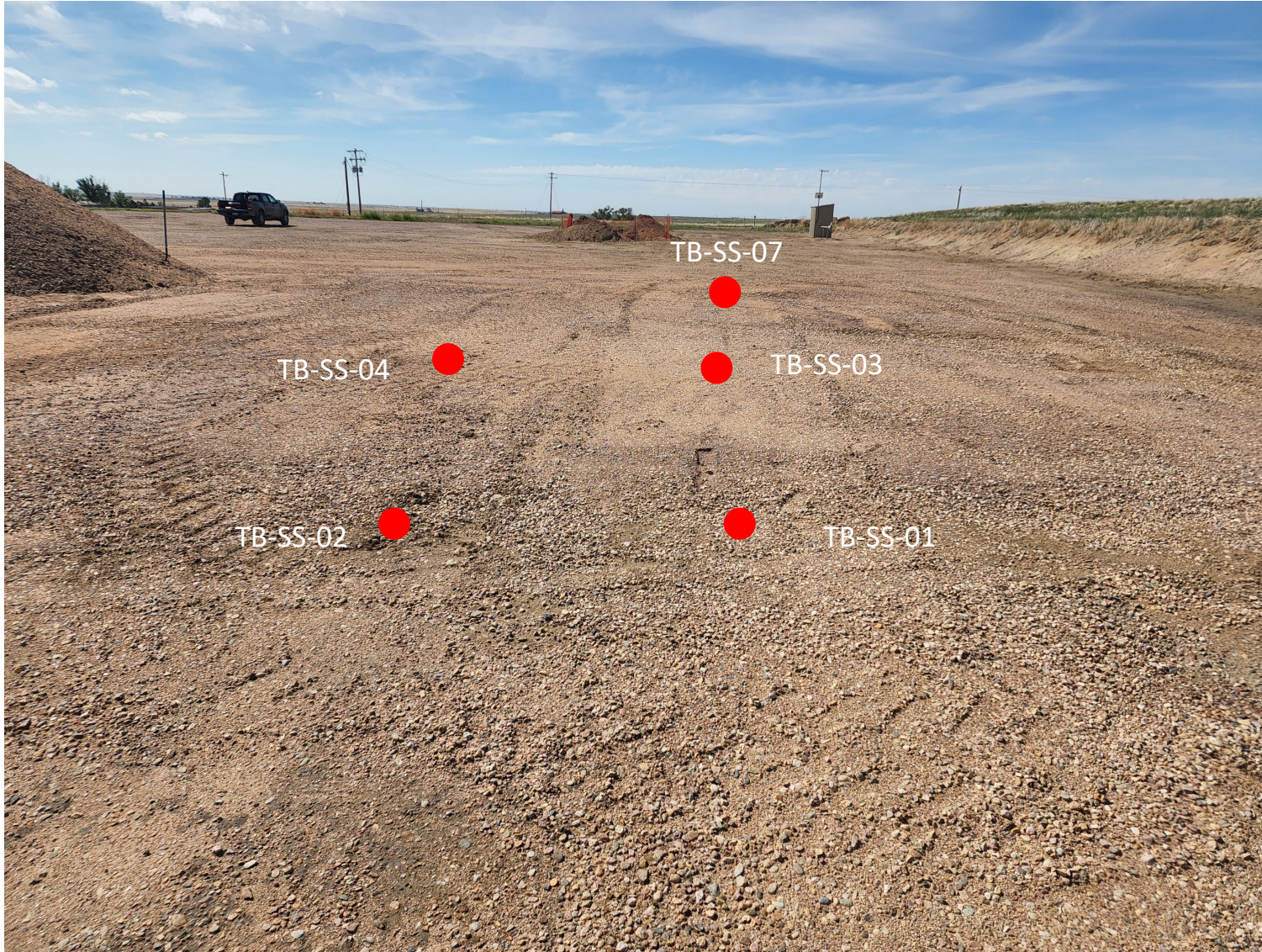
No petroleum hydrocarbon staining or odor observed

Samples collected:

WH-SS-02@4' – 1.2 ppm-v

WH-SS-03@4' – 1.9 ppm-v

# Facility Decommissioning - 06/03/22



Looking south

Former AST containment/locations

No petroleum hydrocarbon staining or odor observed

Samples collected:

TB-SS-01@0.5' – 3.1 ppm-v (lab analyzed)

TB-SS-02@0.5' – 2.7 ppm-v (lab analyzed)

TB-SS-03@0.5' – 3.4 ppm-v (lab analyzed)

TB-SS-04@0.5' – 2.9 ppm-v (lab analyzed)

Former ECD KO Tank location - sample field-screened

TB-SS-07@0.5' – 3.1 ppm-v

# Facility Decommissioning - 06/03/22



Looking south

Former separator location  
No petroleum hydrocarbon staining or odor observed  
Samples collected:  
TB-SS-05@3' – 4.4 ppm-v (lab analyzed)



Looking north

Former ECD and flare locations  
No petroleum hydrocarbon staining or odor observed  
Samples collected:  
TB-SS-10@0.5' – 2.3 ppm-v  
TB-SS-11@0.5' – 1.1 ppm-v



Looking south

Former electrical rack location  
No petroleum hydrocarbon staining or odor observed  
Samples collected:  
TB-SS-08@0.5' – 2.2 ppm-v

# Facility Decommissioning - 06/03/22

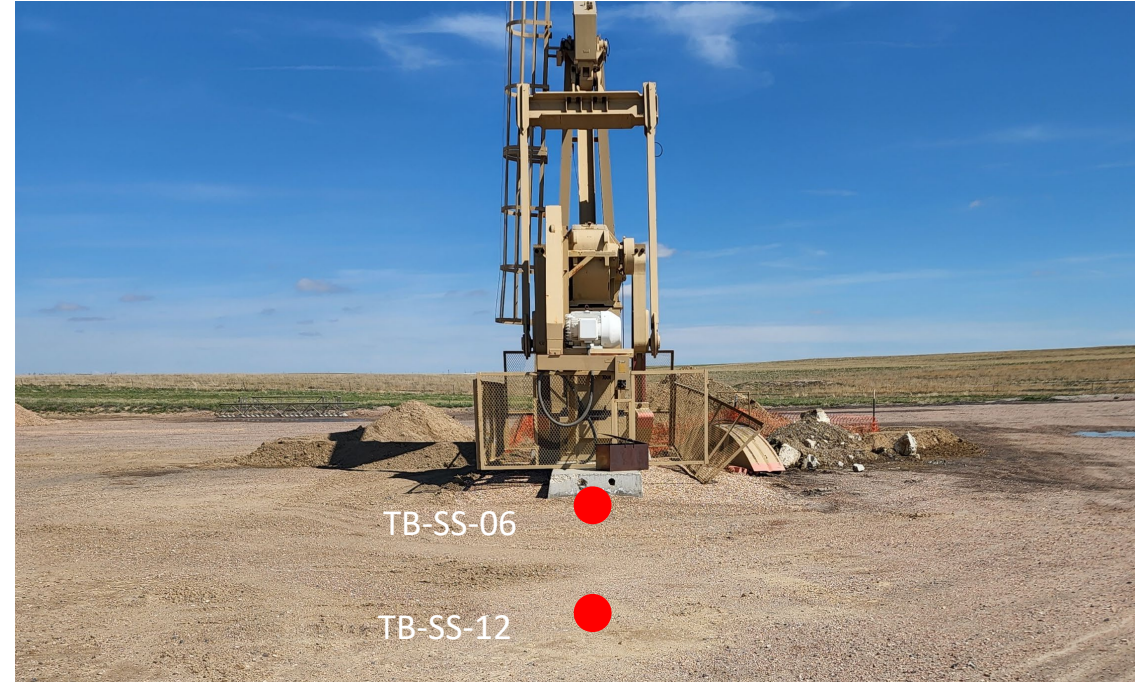


Looking west at meter house

No petroleum hydrocarbon staining or odor observed

Samples collected:

TB-SS-09@0.5' – 1.8 ppm-v



Looking north

Pumpjack still on location – sample field-screened adjacent to base;  
Pumpjack VFD removed

No petroleum hydrocarbon staining or odor observed

Samples collected:

TB-SS-06@0.5' – 2.6 ppm-v

TB-SS-12@0.5' – 1.4 ppm-v



## **ATTACHMENT B**

### **Laboratory Analytical Reports**



June 14, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Bonzana - Dutch Lake #9-11H

Project Number - -

Attached are your analytical results for Bonzana - Dutch Lake #9-11H received by Origins Laboratory, Inc. June 03, 2022. This project is associated with Origins project number Y206127-01.

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: -  
Project: Bonzana - Dutch Lake #9-11H

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Background-01@7'	Y206127-01	Soil	June 3, 2022 11:30	06/03/2022 12:45
Background-02@1'	Y206127-02	Soil	June 3, 2022 11:40	06/03/2022 12:45

Origins Laboratory, Inc.



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

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

Martin C Eckert III  
 Project Number: -  
 Project: Bonzana - Dutch Lake #9-11H



www.originslaboratory.com

1200027

page 1 of 1

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

Project Manager: Martin Eckert III  
 Project Name: Dutch Lake #9-11H  
 Project Number: -  
 Samples Collected By: TC

Fax: 303.265.9645 | Phone: 303.433.1322 | Denver, CO 80211

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil		
Bonzana-01 @ 7'	06-03-22	1130	2 X				X				EC, SAR, pH =
Bonzana-02 @ 1'	06-03-22	1140	2 X				X				Standard Note Page 2
											3
											4
											5
											6
											7
											8
											9
											10

Relinquished By: Trevor Capple	Date: 06-03-22	Time: 1345	Received By: [Signature]	Date: 6/3/22	Time: 1245	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	

Temp Received: 1.0' Date Results Needed: Bonzana

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: -  
 Project: Bonzana - Dutch Lake #9-11H

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: 4206127

Client: EEEC

Client Project ID: Dutch Lake 9-11H

Checklist Completed by: JEH

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

Date/time completed: 10/10/22

Airbill #: NA

Matrix(s) Received: (Check all that apply): 1 Soil/Solid      Water      Other:     

Cooler Number/Temperature: 1 1.0 °C      °C      °C (Describe)      °C

Thermometer ID: 1004

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

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

Reviewed by (Project Manager) JEH

Date/Time Reviewed 10/17/22

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: -  
 Project: Bonzana - Dutch Lake #9-11H

**Background-01@7'**  
**6/3/2022 11:30:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y206127-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.544		0.100	mg/L	1	B2F0708	06/07/2022	06/08/2022	
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**Metals by Saturated Paste by EPA 6010**

Calcium	10.6		0.499	meq/L	10	[CALC]	06/06/2022	06/07/2022	
Magnesium	7.92		0.823	"	"	"	"	"	
Sodium	9.96		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	8.18			pH Units	1	B2F0612	06/06/2022	06/07/2022	
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**SAR by 20B Saturated Paste**

SAR	3.27			SAR	1	B2F0610	06/06/2022	06/07/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	2.55		0.00500	mmhos/cm	1	B2F0612	06/06/2022	06/07/2022	
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**Total Metals by 6020B**

Arsenic	2.42	0.0855	0.25	mg/Kg	5	L620930	06/10/2022	06/13/2022	
Barium	400	0.042	0.25	"	"	"	"	"	
Cadmium	0.209	0.0259	0.25	"	"	"	"	"	J
Copper	8	0.0806	0.25	"	"	"	"	"	

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: -  
 Project: Bonzana - Dutch Lake #9-11H

**Background-01@7'**  
**6/3/2022 11:30:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y206127-01 (Soil)**

**Total Metals by 6020B**

Lead	7.13	0.031	0.25	mg/Kg	5	L620930	06/10/2022	06/13/2022	
Nickel	7.88	0.0633	0.25	"	"	"	"	"	
Selenium	0.168	0.103	0.25	"	"	"	"	"	J
Silver	0.0364	0.0067	0.25	"	"	"	"	"	J
Zinc	37.5	0.534	2.5	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.245	0.503	mg/Kg	1	L620634	06/03/2022	06/09/2022	
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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: -  
 Project: Bonzana - Dutch Lake #9-11H

**Background-02@1'**  
**6/3/2022 11:40:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y206127-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND		0.100	mg/L	1	B2F0708	06/07/2022	06/08/2022	
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**Metals by Saturated Paste by EPA 6010**

Calcium	0.943		0.499	meq/L	10	[CALC]	06/07/2022	06/08/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	8.52			pH Units	1	B2F0709	06/07/2022	06/08/2022	
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**SAR by 20B Saturated Paste**

SAR	0.169			SAR	1	B2F0707	06/07/2022	06/08/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.221		0.00500	mmhos/cm	1	B2F0709	06/07/2022	06/08/2022	
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**Total Metals by 6020B**

Arsenic	2.66	0.0855	0.25	mg/Kg	5	L620930	06/10/2022	06/13/2022	
Barium	232	0.042	0.25	"	"	"	"	"	
Cadmium	0.0747	0.0259	0.25	"	"	"	"	"	J
Copper	3.91	0.0806	0.25	"	"	"	"	"	

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: -  
 Project: Bonzana - Dutch Lake #9-11H

**Background-02@1'**  
**6/3/2022 11:40:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y206127-02 (Soil)**

**Total Metals by 6020B**

Lead	5.12	0.031	0.25	mg/Kg	5	L620930	06/10/2022	06/13/2022	
Nickel	4.51	0.0633	0.25	"	"	"	"	"	
Selenium	0.141	0.103	0.25	"	"	"	"	"	J
Silver	0.0135	0.0067	0.25	"	"	"	"	"	J
Zinc	20.3	0.534	2.5	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.248	0.51	mg/Kg	1	L620634	06/03/2022	06/09/2022	
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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: -  
 Project: Bonzana - Dutch Lake #9-11H

**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 B2F0612 - NO PREP**

**Blank (B2F0612-BLK1)**

Prepared: 06/06/2022 Analyzed: 06/07/2022

pH 0.00 pH Units  
 Specific Conductance (EC) 0.00140 0.00500 mmhos/cm

**Duplicate (B2F0612-DUP1)**

**Source: Y206078-01**

Prepared: 06/06/2022 Analyzed: 06/07/2022

pH 8.41 pH Units 8.44 0.356 25  
 Specific Conductance (EC) 0.399 0.00500 mmhos/cm 0.351 12.6 25

**Batch B2F0709 - NO PREP**

**Blank (B2F0709-BLK1)**

Prepared: 06/07/2022 Analyzed: 06/08/2022

pH 0.00 pH Units  
 Specific Conductance (EC) 0.00130 0.00500 mmhos/cm

**Duplicate (B2F0709-DUP1)**

**Source: Y206127-02**

Prepared: 06/07/2022 Analyzed: 06/08/2022

Specific Conductance (EC) 0.213 0.00500 mmhos/cm 0.221 3.87 25  
 pH 8.45 pH Units 8.52 0.825 25

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: -  
 Project: Bonzana - Dutch Lake #9-11H

**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 L620930 - 3050B**

<b>MSD (L 91004-MSD-L620930)</b>		<b>Source: 91004</b>			Prepared: 06/10/2022 Analyzed: 06/13/2022					
Zinc	50.4	0.534	mg/Kg	24.3	58.4	NR	75-125	10.4	80	*
Silver	0.491	0.0067	"	0.487	0.00777	99	75-125	5.6	80	
Selenium	4.12	0.103	"	4.87	0.162	81	75-125	12.6	80	
Nickel	5.99	0.0633	"	2.43	2.83	130	75-125	3.2	80	*
Lead	5.34	0.031	"	2.43	3.5	76	75-125	7.3	80	
Copper	6.55	0.0806	"	2.43	3.75	115	75-125	3.2	80	
Barium	111	0.042	"	4.87	145	NR	75-125	1.7	80	*
Arsenic	4.52	0.0855	"	2.43	1.1	140	75-125	24.8	80	*
Cadmium	0.561	0.0259	"	0.487	0.0541	104	75-125	7.9	80	

<b>MS (L 91004-MS-L620930)</b>		<b>Source: 91004</b>			Prepared: 06/10/2022 Analyzed: 06/13/2022					
Lead	5.75	0.031	mg/Kg	2.35	3.5	96	75-125			
Copper	6.34	0.0806	"	2.35	3.75	110	75-125			
Arsenic	3.52	0.0855	"	2.35	1.1	103	75-125			
Cadmium	0.518	0.0259	"	0.469	0.0541	99	75-125			
Selenium	3.63	0.103	"	4.69	0.162	74	75-125			*
Barium	113	0.042	"	4.69	145	NR	75-125			*
Silver	0.464	0.0067	"	0.469	0.00777	97	75-125			
Zinc	45.4	0.534	"	23.5	58.4	NR	75-125			*
Nickel	5.8	0.0633	"	2.35	2.83	127	75-125			*

<b>LCS (LCS-L620930)</b>		Prepared: 06/10/2022 Analyzed: 06/13/2022								
Selenium	5.17	0.103	mg/Kg	5		103	80-120			
Silver	0.507	0.0067	"	0.5		101	80-120			
Nickel	2.45	0.0633	"	2.5		98	80-120			
Lead	2.45	0.031	"	2.5		98	80-120			
Cadmium	0.5	0.0259	"	0.5		100	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: -  
 Project: Bonzana - Dutch Lake #9-11H

**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 L620930 - 3050B**

**LCS (LCS-L620930)**

Prepared: 06/10/2022 Analyzed: 06/13/2022

Barium	4.96	0.042	mg/Kg	5		99	80-120			
Arsenic	2.45	0.0855	"	2.5		98	80-120			
Copper	2.38	0.0806	"	2.5		95	80-120			
Zinc	23.5	0.534	"	25		94	80-120			

**LRB (LRB-L620930)**

Prepared: 06/10/2022 Analyzed: 06/13/2022

Cadmium	ND	0.25	mg/Kg				-			
Silver	ND	0.25	"				-			
Selenium	ND	0.25	"				-			
Nickel	ND	0.25	"				-			
Lead	ND	0.25	"				-			
Copper	ND	0.25	"				-			
Barium	ND	0.25	"				-			
Arsenic	ND	0.25	"				-			
Zinc	ND	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: -  
 Project: Bonzana - Dutch Lake #9-11H

**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
<b>Batch L620634 -</b>										
<b>DUP (L 90978-DUP)</b>		<b>Source: Y206127-01</b>			Prepared: Analyzed: 06/09/2022					
Chromium, Hexavalent	ND	0.245	mg/Kg		<0.503		-	0	20	
<b>MS (L 90978-MS)</b>		<b>Source: Y206127-01</b>			Prepared: Analyzed: 06/09/2022					
Chromium, Hexavalent	4.43	0.247	mg/Kg	8.14	<0.247	54	75-125			*
<b>LCS (LCS)</b>		Prepared: Analyzed: 06/09/2022								
Chromium, Hexavalent	7.29	0.244	mg/Kg	8		91	75-125			
<b>LRB (LRB)</b>		Prepared: Analyzed: 06/09/2022								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



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

Martin C Eckert III  
Project Number: -  
Project: Bonzana - Dutch Lake #9-11H

---

**Notes and Definitions**

J Estimated Value. Analyte below reported quantitation limit.

\* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



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

---

Jordan A. Bynon, Project Manager



June 16, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Bonzana - Dutch Lake #9-11H

Project Number - -

Attached are your analytical results for Bonzana - Dutch Lake #9-11H received by Origins Laboratory, Inc. June 03, 2022. This project is associated with Origins project number Y206128-01.

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: -  
Project: Bonzana - Dutch Lake #9-11H

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@7'	Y206128-01	Soil	June 3, 2022 9:50	06/03/2022 12:45
TB-SS-01@0.5'	Y206128-02	Soil	June 3, 2022 10:15	06/03/2022 12:45
TB-SS-02@0.5'	Y206128-03	Soil	June 3, 2022 10:20	06/03/2022 12:45
TB-SS-03@0.5'	Y206128-04	Soil	June 3, 2022 10:25	06/03/2022 12:45
TB-SS-04@0.5'	Y206128-05	Soil	June 3, 2022 10:30	06/03/2022 12:45
TB-SS-05@3'	Y206128-06	Soil	June 3, 2022 10:40	06/03/2022 12:45

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Martin C Eckert III  
 Project Number: -  
 Project: Bonzana - Dutch Lake #9-11H

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

**Sample Receipt Checklist**

Origins Work Order: 10101258 Client: EAEC  
 Client Project ID: Dutch Lake 9-11H

Checklist Completed by: JH Shipped Via: FD  
 Date/time completed: 6/7/22 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: NA

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

Cooler Number/Temperature: 1110 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °C

Thermometer ID: 1004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	—			
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 <sup>(1)</sup> ?	—			
Was adequate sample volume provided <sup>(1)</sup> ?	—			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		—		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	—			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	—			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	—			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	—			
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 <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH < 2 for samples preserved with HNO <sub>3</sub> ; HCL, H <sub>2</sub> SO <sub>4</sub> ) / ( pH > 10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			—	
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature] Date/Time Reviewed 6/7/22

Origins Laboratory, Inc.

*Jefe Pellegrini*

Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Martin C Eckert III  
 Project Number: -  
 Project: Bonzana - Dutch Lake #9-11H

**WH-FS-01@7'**  
**6/3/2022 9:50:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y206128-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.518		0.100	mg/L	1	B2F0708	06/07/2022	06/08/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	40.5		25.0	mg/kg	1	B2F0712	06/07/2022	06/08/2022	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	69.8 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2F0702	06/07/2022	06/08/2022	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	107 %		70-130			"	"	"	
Surrogate: Toluene-d8	94.1 %		70-130			"	"	"	

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: -  
 Project: Bonzana - Dutch Lake #9-11H

**WH-FS-01@7'**  
**6/3/2022 9:50:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y206128-01 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 4-Bromofluorobenzene	97.9 %		70-130			B2F07 02	06/07/2022	06/08/2022	
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**Metals by Saturated Paste by EPA 6010**

Calcium	9.26		0.499	meq/L	10	[CALC]	06/07/2022	06/08/2022	
Magnesium	6.51		0.823	"	"	"	"	"	
Sodium	8.33		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00182	0.00335	mg/Kg	5	L620706	06/09/2022	06/13/2022	
2-Methylnaphthalene	ND	0.00323	0.00335	"	"	"	"	"	
Acenaphthene	ND	0.00152	0.00335	"	"	"	"	"	
Anthracene	ND	0.00167	0.00335	"	"	"	"	"	
Benzo(a)anthracene	ND	0.00247	0.00335	"	"	"	"	"	
Benzo(a)pyrene	ND	0.00234	0.00335	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.00293	0.00335	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00219	0.00335	"	"	"	"	"	
Chrysene	0.00333	0.00312	0.00335	"	"	"	"	"	J
Dibenz(a,h)anthracene	ND	0.00307	0.00335	"	"	"	"	"	
Fluoranthene	ND	0.00197	0.00335	"	"	"	"	"	
Fluorene	ND	0.00143	0.00335	"	"	"	"	"	

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: -  
 Project: Bonzana - Dutch Lake #9-11H

**WH-FS-01@7'**  
**6/3/2022 9:50:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y206128-01 (Soil)**

**PAH by 8270D SIM**

Indeno(1,2,3-cd)pyrene	ND	0.00314	0.00335	mg/Kg	5	L620706	06/09/2022	06/13/2022	
Naphthalene	ND	0.00242	0.00335	"	"	"	"	"	
Pyrene	ND	0.00322	0.00335	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	43.2 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	53.2 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	51.1 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	8.07			pH Units	1	B2F0709	06/07/2022	06/08/2022	
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**SAR by 20B Saturated Paste**

SAR	2.97			SAR	1	B2F0707	06/07/2022	06/08/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	2.32		0.00500	mmhos/cm	1	B2F0709	06/07/2022	06/08/2022	
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**Total Metals by 6020B**

Arsenic	1.29	0.0855	0.25	mg/Kg	5	L620930	06/10/2022	06/13/2022	
Barium	439	0.042	0.25	"	"	"	"	"	

Origins Laboratory, Inc.



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Jen Pellegrini For Jordan A. Bynon, Project Manager

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: -  
 Project: Bonzana - Dutch Lake #9-11H

**WH-FS-01@7'**  
**6/3/2022 9:50:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y206128-01 (Soil)**

**Total Metals by 6020B**

Cadmium	0.065	0.0259	0.25	mg/Kg	5	L620930	06/10/2022	06/13/2022	J
Copper	4.78	0.0806	0.25	"	"	"	"	"	
Lead	3.52	0.031	0.25	"	"	"	"	"	
Nickel	3.95	0.0633	0.25	"	"	"	"	"	
Selenium	0.119	0.103	0.25	"	"	"	"	"	J
Silver	0.02	0.0067	0.25	"	"	"	"	"	J
Zinc	18.6	0.534	2.5	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.245	0.503	mg/Kg	1	L620634	06/03/2022	06/09/2022	
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Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Martin C Eckert III  
 Project Number: -  
 Project: Bonzana - Dutch Lake #9-11H

**TB-SS-01@0.5'**  
**6/3/2022 10:15:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y206128-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND		0.100	mg/L	1	B2F0708	06/07/2022	06/08/2022	U
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2F0712	06/07/2022	06/08/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 73.0 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2F0702	06/07/2022	06/08/2022	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 115 % 70-130 " " "

Origins Laboratory, Inc.



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Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Martin C Eckert III  
 Project Number: -  
 Project: Bonzana - Dutch Lake #9-11H

**TB-SS-01@0.5'**  
**6/3/2022 10:15:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y206128-02 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	93.6 %		70-130			B2F07 02	06/07/2022	06/08/2022	
Surrogate: 4-Bromofluorobenzene	93.9 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	1.34		0.499	meq/L	10	[CALC]	06/07/2022	06/08/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L620706	06/09/2022	06/13/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: -  
 Project: Bonzana - Dutch Lake #9-11H

**TB-SS-01@0.5'**  
**6/3/2022 10:15:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y206128-02 (Soil)**

**PAH by 8270D SIM**

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L620706	06/09/2022	06/13/2022	
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	53.6 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	71.7 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	60.8 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	8.24			pH Units	1	B2F0709	06/07/2022	06/08/2022	
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**SAR by 20B Saturated Paste**

SAR	0.185			SAR	1	B2F0707	06/07/2022	06/08/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.238		0.00500	mmhos/cm	1	B2F0709	06/07/2022	06/08/2022	
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**Total Metals by 6020B**

Arsenic	1.45	0.0855	0.25	mg/Kg	5	L620930	06/10/2022	06/13/2022	
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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: -  
 Project: Bonzana - Dutch Lake #9-11H

**TB-SS-01@0.5'**  
**6/3/2022 10:15:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y206128-02 (Soil)**

**Total Metals by 6020B**

Barium	70.3	0.042	0.25	mg/Kg	5	L620930	06/10/2022	06/13/2022	
Cadmium	0.03	0.0259	0.25	"	"	"	"	"	J
Copper	2.92	0.0806	0.25	"	"	"	"	"	
Lead	3.04	0.031	0.25	"	"	"	"	"	
Nickel	2.3	0.0633	0.25	"	"	"	"	"	
Selenium	0.192	0.103	0.25	"	"	"	"	"	J
Silver	ND	0.0067	0.25	"	"	"	"	"	
Zinc	18.8	0.534	2.5	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.292	0.6	mg/Kg	1	L620634	06/03/2022	06/09/2022	
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Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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**TB-SS-02@0.5'**  
**6/3/2022 10:20:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y206128-03 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND		0.100	mg/L	1	B2F0611	06/06/2022	06/07/2022	U
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2F0712	06/07/2022	06/08/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 69.3 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2F0702	06/07/2022	06/08/2022	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 113 % 70-130 " " "

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: -  
 Project: Bonzana - Dutch Lake #9-11H

**TB-SS-02@0.5'**  
**6/3/2022 10:20:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y206128-03 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	92.0 %		70-130			B2F07 02	06/07/2022	06/08/2022	
Surrogate: 4-Bromofluorobenzene	95.9 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	1.66		0.499	meq/L	10	[CALC]	06/07/2022	06/08/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L620706	06/09/2022	06/13/2022	
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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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: -  
 Project: Bonzana - Dutch Lake #9-11H

**TB-SS-02@0.5'**  
**6/3/2022 10:20:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y206128-03 (Soil)**

**PAH by 8270D SIM**

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L620706	06/09/2022	06/13/2022	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	57 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	77.7 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	63.1 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	8.24			pH Units	1	B2F0709	06/07/2022	06/08/2022	
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**SAR by 20B Saturated Paste**

SAR	0.202			SAR	1	B2F0707	06/07/2022	06/08/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.275		0.00500	mmhos/cm	1	B2F0709	06/07/2022	06/08/2022	
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**Total Metals by 6020B**

Arsenic	1.64	0.0855	0.25	mg/Kg	5	L620930	06/10/2022	06/13/2022	
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Origins Laboratory, Inc.



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Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Martin C Eckert III  
 Project Number: -  
 Project: Bonzana - Dutch Lake #9-11H

**TB-SS-02@0.5'**  
**6/3/2022 10:20:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y206128-03 (Soil)**

**Total Metals by 6020B**

Barium	86.7	0.042	0.25	mg/Kg	5	L620930	06/10/2022	06/13/2022	
Cadmium	0.058	0.0259	0.25	"	"	"	"	"	J
Copper	4.58	0.0806	0.25	"	"	"	"	"	
Lead	2.93	0.031	0.25	"	"	"	"	"	
Nickel	3.2	0.0633	0.25	"	"	"	"	"	
Selenium	0.138	0.103	0.25	"	"	"	"	"	J
Silver	0.0074	0.0067	0.25	"	"	"	"	"	J
Zinc	44.3	0.534	2.5	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.246	0.505	mg/Kg	1	L620634	06/03/2022	06/09/2022	
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Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Martin C Eckert III  
 Project Number: -  
 Project: Bonzana - Dutch Lake #9-11H

**TB-SS-03@0.5'**  
**6/3/2022 10:25:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y206128-04 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND		0.100	mg/L	1	B2F0611	06/06/2022	06/07/2022	U
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2F0712	06/07/2022	06/09/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 71.7 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2F0702	06/07/2022	06/08/2022	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 113 % 70-130 " " "

Origins Laboratory, Inc.



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Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Martin C Eckert III  
 Project Number: -  
 Project: Bonzana - Dutch Lake #9-11H

**TB-SS-03@0.5'**  
**6/3/2022 10:25:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y206128-04 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	94.0 %		70-130			B2F07 02	06/07/2022	06/08/2022	
Surrogate: 4-Bromofluorobenzene	94.9 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	1.49		0.499	meq/L	10	[CALC]	06/07/2022	06/08/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L620706	06/09/2022	06/13/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Martin C Eckert III  
 Project Number: -  
 Project: Bonzana - Dutch Lake #9-11H

**TB-SS-03@0.5'**  
**6/3/2022 10:25:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y206128-04 (Soil)**

**PAH by 8270D SIM**

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L620706	06/09/2022	06/13/2022	
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	54.1 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	76.1 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	62.5 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	8.25			pH Units	1	B2F0709	06/07/2022	06/08/2022	
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**SAR by 20B Saturated Paste**

SAR	0.168			SAR	1	B2F0707	06/07/2022	06/08/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.254		0.00500	mmhos/cm	1	B2F0709	06/07/2022	06/08/2022	
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**Total Metals by 6020B**

Arsenic	1.1	0.0855	0.25	mg/Kg	5	L620930	06/10/2022	06/13/2022	
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Origins Laboratory, Inc.



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Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Martin C Eckert III  
 Project Number: -  
 Project: Bonzana - Dutch Lake #9-11H

**TB-SS-03@0.5'**  
**6/3/2022 10:25:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y206128-04 (Soil)**

**Total Metals by 6020B**

Barium	145	0.042	0.25	mg/Kg	5	L620930	06/10/2022	06/13/2022	
Cadmium	0.0541	0.0259	0.25	"	"	"	"	"	J
Copper	3.75	0.0806	0.25	"	"	"	"	"	
Lead	3.5	0.031	0.25	"	"	"	"	"	
Nickel	2.83	0.0633	0.25	"	"	"	"	"	
Selenium	0.162	0.103	0.25	"	"	"	"	"	J
Silver	0.0077	0.0067	0.25	"	"	"	"	"	J
Zinc	58.4	0.534	2.5	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.251	0.515	mg/Kg	1	L620634	06/03/2022	06/09/2022	
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Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Martin C Eckert III  
 Project Number: -  
 Project: Bonzana - Dutch Lake #9-11H

**TB-SS-04@0.5'**  
**6/3/2022 10:30:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y206128-05 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND		0.100	mg/L	1	B2F0611	06/06/2022	06/07/2022	U
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2F0712	06/07/2022	06/09/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 70.6 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2F0702	06/07/2022	06/08/2022	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 113 % 70-130 " " "

Origins Laboratory, Inc.



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Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Martin C Eckert III  
 Project Number: -  
 Project: Bonzana - Dutch Lake #9-11H

**TB-SS-04@0.5'**  
**6/3/2022 10:30:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y206128-05 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	92.0 %		70-130			B2F07 02	06/07/2022	06/08/2022	
Surrogate: 4-Bromofluorobenzene	96.3 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	2.01		0.499	meq/L	10	[CALC]	06/07/2022	06/08/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L620706	06/09/2022	06/13/2022	
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: -  
 Project: Bonzana - Dutch Lake #9-11H

**TB-SS-04@0.5'**  
**6/3/2022 10:30:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y206128-05 (Soil)**

**PAH by 8270D SIM**

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L620706	06/09/2022	06/13/2022	
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	52.4 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	73 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	60 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	8.21			pH Units	1	B2F0709	06/07/2022	06/08/2022	
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**SAR by 20B Saturated Paste**

SAR	0.188			SAR	1	B2F0707	06/07/2022	06/08/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.338		0.00500	mmhos/cm	1	B2F0709	06/07/2022	06/08/2022	
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**Total Metals by 6020B**

Arsenic	1	0.0855	0.25	mg/Kg	5	L620931	06/10/2022	06/14/2022	
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Origins Laboratory, Inc.



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Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Martin C Eckert III  
 Project Number: -  
 Project: Bonzana - Dutch Lake #9-11H

**TB-SS-04@0.5'**  
**6/3/2022 10:30:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y206128-05 (Soil)**

**Total Metals by 6020B**

Barium	127	0.042	0.25	mg/Kg	5	L620931	06/10/2022	06/14/2022	
Cadmium	0.0344	0.0259	0.25	"	"	"	"	"	J
Copper	3.47	0.0806	0.25	"	"	"	"	"	
Lead	4.01	0.031	0.25	"	"	"	"	"	
Nickel	2.61	0.0633	0.25	"	"	"	"	"	
Selenium	0.184	0.103	0.25	"	"	"	"	"	J
Silver	ND	0.0067	0.25	"	"	"	"	"	
Zinc	16.3	0.534	2.5	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.251	0.516	mg/Kg	1	L620634	06/03/2022	06/09/2022	
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Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Martin C Eckert III  
 Project Number: -  
 Project: Bonzana - Dutch Lake #9-11H

**TB-SS-05@3'**  
**6/3/2022 10:40:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y206128-06 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND		0.100	mg/L	1	B2F0611	06/06/2022	06/07/2022	U
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2F0712	06/07/2022	06/09/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	81.3 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2F0702	06/07/2022	06/08/2022	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	125 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Martin C Eckert III  
 Project Number: -  
 Project: Bonzana - Dutch Lake #9-11H

**TB-SS-05@3'**  
**6/3/2022 10:40:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y206128-06 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	89.6 %		70-130			B2F07 02	06/07/2022	06/08/2022	
Surrogate: 4-Bromofluorobenzene	97.4 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	<b>0.943</b>		0.499	meq/L	10	[CALC]	06/07/2022	06/08/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L620706	06/09/2022	06/13/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Martin C Eckert III  
 Project Number: -  
 Project: Bonzana - Dutch Lake #9-11H

**TB-SS-05@3'**  
**6/3/2022 10:40:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y206128-06 (Soil)**

**PAH by 8270D SIM**

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L620706	06/09/2022	06/13/2022	
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	68 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	57.3 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	8.48			pH Units	1	B2F0709	06/07/2022	06/08/2022	
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**SAR by 20B Saturated Paste**

SAR	0.164			SAR	1	B2F0707	06/07/2022	06/08/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.220		0.00500	mmhos/cm	1	B2F0709	06/07/2022	06/08/2022	
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**Total Metals by 6020B**

Arsenic	2.29	0.0855	0.25	mg/Kg	5	L620931	06/10/2022	06/14/2022	
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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: -  
 Project: Bonzana - Dutch Lake #9-11H

**TB-SS-05@3'**  
**6/3/2022 10:40:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y206128-06 (Soil)**

**Total Metals by 6020B**

Barium	178	0.042	0.25	mg/Kg	5	L620931	06/10/2022	06/14/2022	
Cadmium	0.14	0.0259	0.25	"	"	"	"	"	J
Copper	4.8	0.0806	0.25	"	"	"	"	"	
Lead	7.64	0.031	0.25	"	"	"	"	"	
Nickel	6.4	0.0633	0.25	"	"	"	"	"	
Selenium	0.162	0.103	0.25	"	"	"	"	"	J
Silver	0.0164	0.0067	0.25	"	"	"	"	"	J
Zinc	26.9	0.534	2.5	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L620634	06/03/2022	06/09/2022	
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Jen Pellegrini For Jordan A. Bynon, Project Manager

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Martin C Eckert III  
 Project Number: -  
 Project: Bonzana - Dutch Lake #9-11H

**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 B2F0702 - EPA 5030 (soil)**

**Blank (B2F0702-BLK1)**

Prepared: 06/07/2022 Analyzed: 06/08/2022

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.0100	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	100		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	98.7		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	96.6		70-130			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Martin C Eckert III  
 Project Number: -  
 Project: Bonzana - Dutch Lake #9-11H

**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 B2F0702 - EPA 5030 (soil)

**LCS (B2F0702-BS1)**

Prepared: 06/07/2022 Analyzed: 06/08/2022

1,2,4-Trimethylbenzene	0.108	0.00200	mg/kg	0.100		108	70-130			
1,3,5-Trimethylbenzene	0.110	0.00200	"	0.100		110	70-130			
Benzene	0.102	0.00200	"	0.100		102	70-130			
Ethylbenzene	0.119	0.00200	"	0.100		119	70-130			
Naphthalene	0.107	0.0100	"	0.100		107	70-130			
Toluene	0.100	0.00200	"	0.100		100	70-130			
o-Xylene	0.109	0.00200	"	0.100		109	70-130			
m,p-Xylene	0.222	0.00400	"	0.200		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		110	70-130			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Martin C Eckert III  
 Project Number: -  
 Project: Bonzana - Dutch Lake #9-11H

**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 B2F0702 - EPA 5030 (soil)

Matrix Spike (B2F0702-MS1)	Source: Y206128-01			Prepared: 06/07/2022 Analyzed: 06/10/2022						
1,2,4-Trimethylbenzene	0.0916	0.00200	mg/kg	0.100	ND	91.6	70-130			
1,3,5-Trimethylbenzene	0.0914	0.00200	"	0.100	ND	91.4	70-130			
Benzene	0.0964	0.00200	"	0.100	ND	96.4	70-130			
Ethylbenzene	0.0991	0.00200	"	0.100	ND	99.1	70-130			
Naphthalene	0.0948	0.0100	"	0.100	ND	94.8	70-130			
Toluene	0.0930	0.00200	"	0.100	ND	93.0	70-130			
o-Xylene	0.0973	0.00200	"	0.100	ND	97.3	70-130			
m,p-Xylene	0.188	0.00400	"	0.200	ND	94.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		88.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		110	70-130			

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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Martin C Eckert III  
 Project Number: -  
 Project: Bonzana - Dutch Lake #9-11H

**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 B2F0702 - EPA 5030 (soil)

Matrix Spike Dup (B2F0702-MSD1)	Source: Y206128-01			Prepared: 06/07/2022 Analyzed: 06/10/2022						
1,2,4-Trimethylbenzene	0.0917	0.00200	mg/kg	0.100	ND	91.7	70-130	0.0218	20	
1,3,5-Trimethylbenzene	0.0923	0.00200	"	0.100	ND	92.3	70-130	0.958	20	
Benzene	0.0953	0.00200	"	0.100	ND	95.3	70-130	1.11	20	
Ethylbenzene	0.0999	0.00200	"	0.100	ND	99.9	70-130	0.804	20	
Naphthalene	0.0955	0.0100	"	0.100	ND	95.5	70-130	0.799	20	
Toluene	0.0928	0.00200	"	0.100	ND	92.8	70-130	0.215	20	
o-Xylene	0.0977	0.00200	"	0.100	ND	97.7	70-130	0.390	20	
m,p-Xylene	0.190	0.00400	"	0.200	ND	94.8	70-130	0.624	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		92.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		106	70-130			

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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Martin C Eckert III  
 Project Number: -  
 Project: Bonzana - Dutch Lake #9-11H

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B2F0712 - EPA 3580</b>										
<b>Blank (B2F0712-BLK1)</b>										
					Prepared: 06/07/2022 Analyzed: 06/08/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	19		"	24.9		75.4	50-150			

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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Martin C Eckert III  
 Project Number: -  
 Project: Bonzana - Dutch Lake #9-11H

**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 B2F0712 - EPA 3580**

**LCS (B2F0712-BS1)**

Prepared: 06/07/2022 Analyzed: 06/08/2022

Diesel (C10-C28)	1020	50.0	mg/kg	1000		102	70-130			
Residual Range Organics (C28-C40)	938	200	"	1000		93.8	70-130			
Surrogate: o-Terphenyl	47		"	49.8		95.0	50-150			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Martin C Eckert III  
 Project Number: -  
 Project: Bonzana - Dutch Lake #9-11H

**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 B2F0712 - EPA 3580**

<b>Matrix Spike (B2F0712-MS1)</b>	<b>Source: Y206128-01</b>			Prepared: 06/07/2022 Analyzed: 06/08/2022						
Diesel (C10-C28)	1190	50.0	mg/kg	1000	40.5	115	70-130			
Residual Range Organics (C28-C40)	1110	200	"	1000	60.3	105	70-130			
Surrogate: o-Terphenyl	42		"	49.8		83.8	50-150			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: -  
 Project: Bonzana - Dutch Lake #9-11H

**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 B2F0712 - EPA 3580

Matrix Spike Dup (B2F0712-MSD1)	Source: Y206128-01			Prepared: 06/07/2022 Analyzed: 06/08/2022						
Diesel (C10-C28)	1050	50.0	mg/kg	1000	40.5	101	70-130	12.0	35	
Residual Range Organics (C28-C40)	987	200	"	1000	60.3	92.7	70-130	12.1	35	
Surrogate: o-Terphenyl	44		"	49.8		88.7	50-150			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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 8000 W 44th Ave  
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Martin C Eckert III  
 Project Number: -  
 Project: Bonzana - Dutch Lake #9-11H

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Classical Chemistry Parameters - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2F0611 - Default Prep Metals**

**Blank (B2F0611-BLK1)**

Prepared: 06/06/2022 Analyzed: 06/07/2022

Boron	ND	0.100	mg/L							U
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**Duplicate (B2F0611-DUP1)**

**Source: Y206078-01**

Prepared: 06/06/2022 Analyzed: 06/07/2022

Boron	0.204	0.100	mg/L		0.262			24.9	50	
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**Batch B2F0708 - Default Prep Metals**

**Blank (B2F0708-BLK1)**

Prepared: 06/07/2022 Analyzed: 06/08/2022

Boron	ND	0.100	mg/L							U
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**Duplicate (B2F0708-DUP1)**

**Source: Y206127-02**

Prepared: 06/07/2022 Analyzed: 06/08/2022

Boron	0.0803	0.100	mg/L		0.0795			0.999	50	U
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Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: -  
 Project: Bonzana - Dutch Lake #9-11H

**Saturated Paste - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B2F0709 - NO PREP</b>										
<b>Blank (B2F0709-BLK1)</b>					Prepared: 06/07/2022 Analyzed: 06/08/2022					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
pH	0.00		pH Units							U
<b>Duplicate (B2F0709-DUP1)</b>					<b>Source: Y206127-02</b> Prepared: 06/07/2022 Analyzed: 06/08/2022					
pH	8.45		pH Units		8.52			0.825	25	
Specific Conductance (EC)	0.213	0.00500	mmhos/cm		0.221			3.87	25	

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: -  
 Project: Bonzana - Dutch Lake #9-11H

**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 L620706 - 3550B

MSD (L 91006-MSD-L620706)		Source: Y206128-06			Prepared: 06/09/2022 Analyzed: 06/13/2022					
Fluoranthene	0.101	0.000394	mg/Kg	0.167	<0.000394	60.4	30-130	12.9	30	
Pyrene	0.0966	0.000643	"	0.167	<0.000643	57.8	30-130	12.9	30	
Naphthalene	0.0761	0.000484	"	0.167	<0.000484	45.5	30-130	13.4	30	
Fluorene	0.0859	0.000286	"	0.167	<0.000286	51.4	30-130	16.1	30	
Dibenz(a,h)anthracene	0.101	0.000614	"	0.167	<0.000614	60.4	30-130	21.2	30	
Chrysene	0.0856	0.000624	"	0.167	<0.000624	51.2	30-130	10.8	30	
Benzo(k)fluoranthene	0.0562	0.000437	"	0.167	<0.000437	33.6	30-130	9.4	30	
Indeno(1,2,3-cd)pyrene	0.0752	0.000627	"	0.167	<0.000627	45	30-130	28.3	30	
Benzo(b)fluoranthene	0.0436	0.000585	"	0.167	<0.000585	26.1	30-130	13.2	30	*
1-Methylnaphthalene	0.0757	0.000364	"	0.167	<0.000364	45.3	30-130	14.8	30	
2-Methylnaphthalene	0.0753	0.000645	"	0.167	<0.000645	45	30-130	14.5	30	
Acenaphthene	0.0893	0.000304	"	0.167	<0.000304	53.4	30-130	18	30	
Anthracene	0.101	0.000334	"	0.167	<0.000334	60.4	30-130	11.2	30	
Benzo(a)anthracene	0.0899	0.000493	"	0.167	<0.000493	53.8	30-130	12.6	30	
Benzo(a)pyrene	0.0937	0.000468	"	0.167	<0.000468	56.1	30-130	13.2	30	
Surrogate: Nitrobenzene-d5	50.7		"	0.333	188	50.7	29-110			
Surrogate: 2-Fluorobiphenyl	45.3		"	0.333	168	45.3	33-115			
Surrogate: 4-Terphenyl-d14	60.6		"	0.333	223	60.6	33-122			

MS (L 91006-MS-L620706)		Source: Y206128-06			Prepared: 06/09/2022 Analyzed: 06/13/2022					
1-Methylnaphthalene	0.0878	0.000364	mg/Kg	0.164	<0.000364	53.5	30-130			
Benzo(b)fluoranthene	0.0498	0.000585	"	0.164	<0.000585	30.3	30-130			
Dibenz(a,h)anthracene	0.125	0.000614	"	0.164	<0.000614	76.2	30-130			
Chrysene	0.0954	0.000624	"	0.164	<0.000624	58.1	30-130			
Benzo(k)fluoranthene	0.0618	0.000437	"	0.164	<0.000437	37.6	30-130			
Fluoranthene	0.115	0.000394	"	0.164	<0.000394	70.1	30-130			
Benzo(a)pyrene	0.107	0.000468	"	0.164	<0.000468	65.2	30-130			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Martin C Eckert III  
 Project Number: -  
 Project: Bonzana - Dutch Lake #9-11H

**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 L620706 - 3550B**

MS (L 91006-MS-L620706)	Source: Y206128-06			Prepared: 06/09/2022 Analyzed: 06/13/2022						
Benzo(a)anthracene	0.102	0.000493	mg/Kg	0.164	<0.000493	62.1	30-130			
Anthracene	0.113	0.000334	"	0.164	<0.000334	68.9	30-130			
Fluorene	0.101	0.000286	"	0.164	<0.000286	61.5	30-130			
Acenaphthene	0.107	0.000304	"	0.164	<0.000304	65.2	30-130			
Naphthalene	0.0871	0.000484	"	0.164	<0.000484	53.1	30-130			
Pyrene	0.11	0.000643	"	0.164	<0.000643	67	30-130			
2-Methylnaphthalene	0.0871	0.000645	"	0.164	<0.000645	53.1	30-130			
Indeno(1,2,3-cd)pyrene	0.1	0.000627	"	0.164	<0.000627	60.9	30-130			
Surrogate: 4-Terphenyl-d14	68.6		"	0.329	223	68.6	33-122			
Surrogate: 2-Fluorobiphenyl	54.7		"	0.329	168	54.7	33-115			
Surrogate: Nitrobenzene-d5	58		"	0.329	188	58	29-110			

LCS (LCS-L620706)	Prepared: 06/09/2022 Analyzed: 06/13/2022									
Dibenz(a,h)anthracene	0.112	0.000614	mg/Kg	0.167		67	30-130			
2-Methylnaphthalene	0.0878	0.000645	"	0.167		52.5	30-130			
Acenaphthene	0.104	0.000304	"	0.167		62.2	30-130			
Anthracene	0.113	0.000334	"	0.167		67.6	30-130			
Benzo(a)anthracene	0.101	0.000493	"	0.167		60.4	30-130			
Benzo(a)pyrene	0.103	0.000468	"	0.167		61.6	30-130			
Benzo(b)fluoranthene	0.0849	0.000585	"	0.167		50.8	30-130			
1-Methylnaphthalene	0.0875	0.000364	"	0.167		52.3	30-130			
Chrysene	0.0979	0.000624	"	0.167		58.6	30-130			
Fluorene	0.0993	0.000286	"	0.167		59.4	30-130			
Fluoranthene	0.119	0.000394	"	0.167		71.2	30-130			
Indeno(1,2,3-cd)pyrene	0.0919	0.000627	"	0.167		55	30-130			
Pyrene	0.115	0.000643	"	0.167		68.8	30-130			
Benzo(k)fluoranthene	0.0732	0.000437	"	0.167		43.8	30-130			

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: -  
 Project: Bonzana - Dutch Lake #9-11H

**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 L620706 - 3550B**

**LCS (LCS-L620706)**

Prepared: 06/09/2022 Analyzed: 06/13/2022

Naphthalene	0.0865	0.000484	mg/Kg	0.167		51.7	30-130			
Surrogate: 2-Fluorobiphenyl	55.2		"	0.333		55.2	33-115			
Surrogate: 4-Terphenyl-d14	71.7		"	0.333		71.7	33-122			
Surrogate: Nitrobenzene-d5	60.3		"	0.333		60.3	29-110			

**LRB (LRB-L620706)**

Prepared: 06/09/2022 Analyzed: 06/13/2022

2-Methylnaphthalene	ND	0.00067	mg/Kg				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	58.8		"	0.333		58.8	29-110			
Surrogate: 2-Fluorobiphenyl	52.5		"	0.333		52.5	33-115			
Surrogate: 4-Terphenyl-d14	69.6		"	0.333		69.6	33-122			

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: -  
 Project: Bonzana - Dutch Lake #9-11H

**Total Metals by 6020B - Quality Control**  
**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L620931 - 3050B**

<b>MSD (L 91055-MSD-L620931)</b>		<b>Source: 91055</b>			Prepared: 06/10/2022 Analyzed: 06/14/2022					
Silver	0.473	0.0067	mg/Kg	0.464	0.19	61	75-125	14.5	80	*
Copper	5.78	0.0806	"	2.32	18.2	NR	75-125	74.2	80	*
Arsenic	2.14	0.0855	"	2.32	1.72	18	75-125	22.7	80	*
Cadmium	0.527	0.0259	"	0.464	0.197	71	75-125	10.6	80	*
Lead	6.41	0.031	"	2.32	23.3	NR	75-125	65.8	80	*
Nickel	4.06	0.0633	"	2.32	4.34	NR	75-125	40.9	80	*
Selenium	3.36	0.103	"	4.64	0.204	68	75-125	12	80	*
Zinc	37.8	0.534	"	23.2	53	NR	75-125	40.6	80	*
Barium	26.7	0.042	"	4.64	57.7	NR	75-125	70.7	80	*

<b>MS (L 91055-MS-L620931)</b>		<b>Source: 91055</b>			Prepared: 06/10/2022 Analyzed: 06/14/2022					
Zinc	57.1	0.534	mg/Kg	25	53	16	75-125			*
Arsenic	2.69	0.0855	"	2.5	1.72	39	75-125			*
Barium	55.9	0.042	"	5	57.7	NR	75-125			*
Cadmium	0.586	0.0259	"	0.5	0.197	78	75-125			*
Copper	12.6	0.0806	"	2.5	18.2	NR	75-125			*
Lead	12.7	0.031	"	2.5	23.3	NR	75-125			*
Nickel	6.15	0.0633	"	2.5	4.34	72	75-125			*
Selenium	3.79	0.103	"	5	0.204	72	75-125			*
Silver	0.547	0.0067	"	0.5	0.19	71	75-125			*

<b>LCS (LCS-L620931)</b>		Prepared: 06/10/2022 Analyzed: 06/14/2022								
Arsenic	2.36	0.0855	mg/Kg	2.5		94	80-120			
Silver	0.497	0.0067	"	0.5		99	80-120			
Selenium	4.54	0.103	"	5		91	80-120			
Nickel	2.38	0.0633	"	2.5		95	80-120			
Lead	2.41	0.031	"	2.5		96	80-120			

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: -  
 Project: Bonzana - Dutch Lake #9-11H

**Total Metals by 6020B - Quality Control**  
**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L620931 - 3050B**

**LCS (LCS-L620931)**

Prepared: 06/10/2022 Analyzed: 06/14/2022

Copper	2.33	0.0806	mg/Kg	2.5		93	80-120			
Barium	4.7	0.042	"	5		94	80-120			
Zinc	23.2	0.534	"	25		93	80-120			
Cadmium	0.475	0.0259	"	0.5		95	80-120			

**LRB (LRB-L620931)**

Prepared: 06/10/2022 Analyzed: 06/14/2022

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

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Martin C Eckert III  
 Project Number: -  
 Project: Bonzana - Dutch Lake #9-11H

**Total Metals by 6020B - Quality Control**  
**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L620930 - 3050B**

<b>MSD (L 91004-MSD-L620930)</b>		<b>Source: Y206128-04</b>			<b>Prepared: 06/10/2022 Analyzed: 06/13/2022</b>					
Arsenic	4.52	0.0855	mg/Kg	2.43	1.1	140	75-125	24.8	80	*
Selenium	4.12	0.103	"	4.87	0.162	81	75-125	12.6	80	
Lead	5.34	0.031	"	2.43	3.5	76	75-125	7.3	80	
Copper	6.55	0.0806	"	2.43	3.75	115	75-125	3.2	80	
Nickel	5.99	0.0633	"	2.43	2.83	130	75-125	3.2	80	*
Zinc	50.4	0.534	"	24.3	58.4	NR	75-125	10.4	80	*
Cadmium	0.561	0.0259	"	0.487	0.0541	104	75-125	7.9	80	
Barium	111	0.042	"	4.87	145	NR	75-125	1.7	80	*
Silver	0.491	0.0067	"	0.487	0.00777	99	75-125	5.6	80	

<b>MS (L 91004-MS-L620930)</b>		<b>Source: Y206128-04</b>			<b>Prepared: 06/10/2022 Analyzed: 06/13/2022</b>					
Lead	5.75	0.031	mg/Kg	2.35	3.5	96	75-125			
Zinc	45.4	0.534	"	23.5	58.4	NR	75-125			*
Silver	0.464	0.0067	"	0.469	0.00777	97	75-125			
Nickel	5.8	0.0633	"	2.35	2.83	127	75-125			*
Barium	113	0.042	"	4.69	145	NR	75-125			*
Arsenic	3.52	0.0855	"	2.35	1.1	103	75-125			
Copper	6.34	0.0806	"	2.35	3.75	110	75-125			
Cadmium	0.518	0.0259	"	0.469	0.0541	99	75-125			
Selenium	3.63	0.103	"	4.69	0.162	74	75-125			*

<b>LCS (LCS-L620930)</b>		<b>Prepared: 06/10/2022 Analyzed: 06/13/2022</b>								
Selenium	5.17	0.103	mg/Kg	5		103	80-120			
Silver	0.507	0.0067	"	0.5		101	80-120			
Nickel	2.45	0.0633	"	2.5		98	80-120			
Arsenic	2.45	0.0855	"	2.5		98	80-120			
Barium	4.96	0.042	"	5		99	80-120			

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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Martin C Eckert III  
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 Project: Bonzana - Dutch Lake #9-11H

**Total Metals by 6020B - Quality Control**  
**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L620930 - 3050B**

**LCS (LCS-L620930)**

Prepared: 06/10/2022 Analyzed: 06/13/2022

Cadmium	0.5	0.0259	mg/Kg	0.5		100	80-120			
Copper	2.38	0.0806	"	2.5		95	80-120			
Lead	2.45	0.031	"	2.5		98	80-120			
Zinc	23.5	0.534	"	25		94	80-120			

**LRB (LRB-L620930)**

Prepared: 06/10/2022 Analyzed: 06/13/2022

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch L620634 -</b>										
<b>DUP (L 90978-DUP)</b>		<b>Source: 90978</b>			Prepared: Analyzed: 06/09/2022					
Chromium, Hexavalent	ND	0.245	mg/Kg		<0.503		-	0	20	
<b>MS (L 90978-MS)</b>		<b>Source: 90978</b>			Prepared: Analyzed: 06/09/2022					
Chromium, Hexavalent	4.43	0.247	mg/Kg	8.14	<0.247	54	75-125			*
<b>LCS (LCS)</b>		Prepared: Analyzed: 06/09/2022								
Chromium, Hexavalent	7.29	0.244	mg/Kg	8		91	75-125			
<b>LRB (LRB)</b>		Prepared: Analyzed: 06/09/2022								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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Martin C Eckert III  
Project Number: -  
Project: Bonzana - Dutch Lake #9-11H

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**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.

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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