

FREMONT ENVIRONMENTAL INC.

December 22, 2022

Mr. Dan Peterson
Noble Energy Inc.
2115 117th Avenue
Greeley, CO 80634

Subject: **Facility Closure Data Submittal**
Ball Ranch AC 15-03 Facility
Facility ID: 427188
NWNW Sec. 15, T7N, R63W
Weld County, Colorado
Fremont Project No. C022-124
Remediation #23764

Dear Mr. Peterson:

As requested, Fremont Environmental Inc. (Fremont) personnel conducted facility abandonment activities at the Noble Energy Inc. (Noble) Ball Ranch AC 15-03 facility. Details of the facility abandonment activities are documented in the attached Closure Report. Soil sample PWVB01@8' was reported with concentrations of organic compounds in exceedance of groundwater protection standards. Additionally, the AST05@1' sample was reported with a slightly elevated concentration of EC. Groundwater was not encountered during decommissioning activities.

Please contact me at (303) 956-8714 if you require any additional information. Fremont appreciates the opportunity to provide this service.

Sincerely,

FREMONT ENVIRONMENTAL INC.

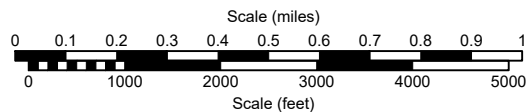
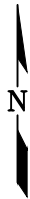
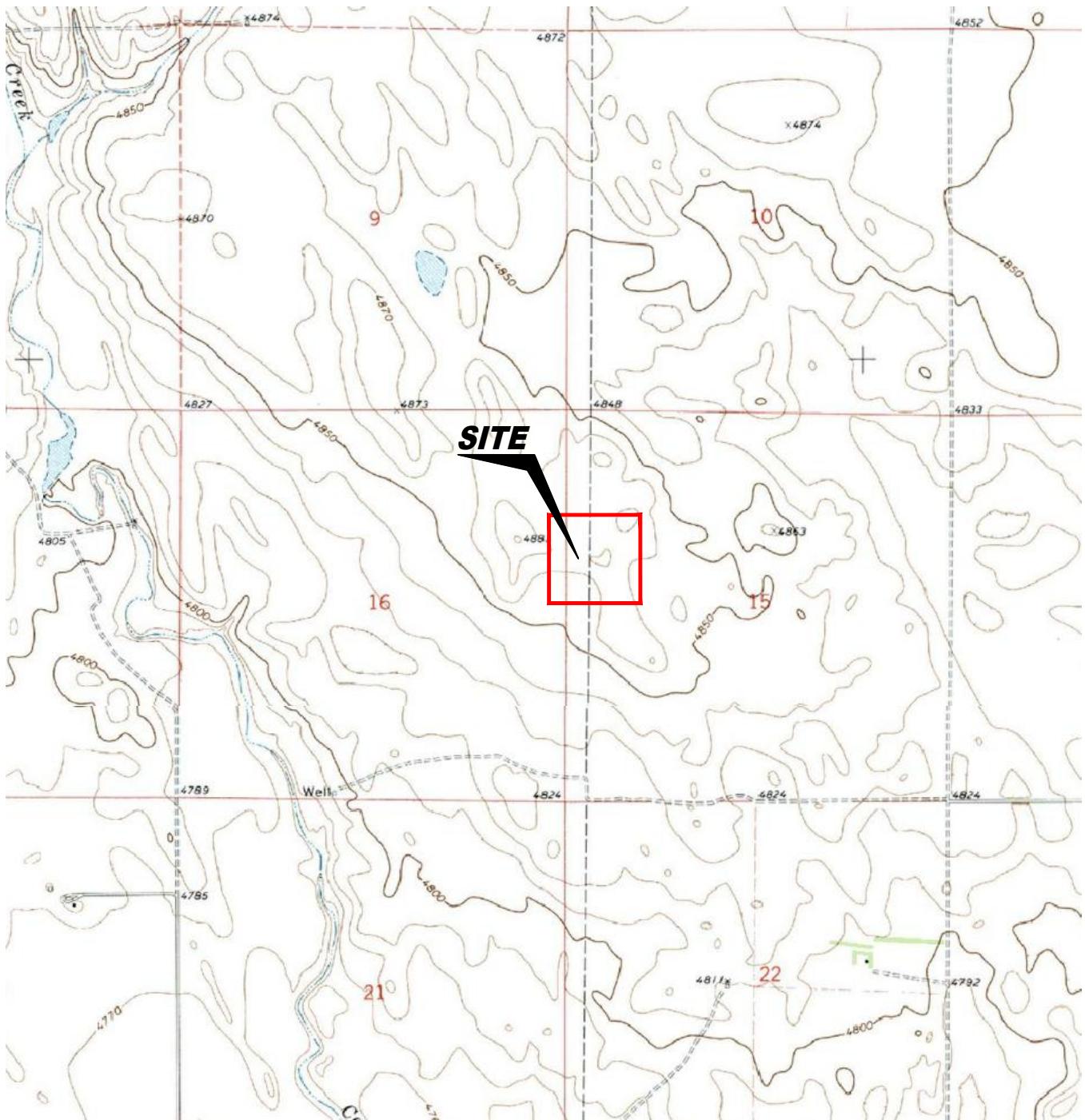


Paul V. Henchan, P.E.
Senior Consultant

Attachments:

- Figures
- Tables
- Facility Closure Checklist
- Photos
- Laboratory Reports

**1759 REDWING LANE, BROOMFIELD, CO 80020
(303) 956-8714 (DIRECT)**



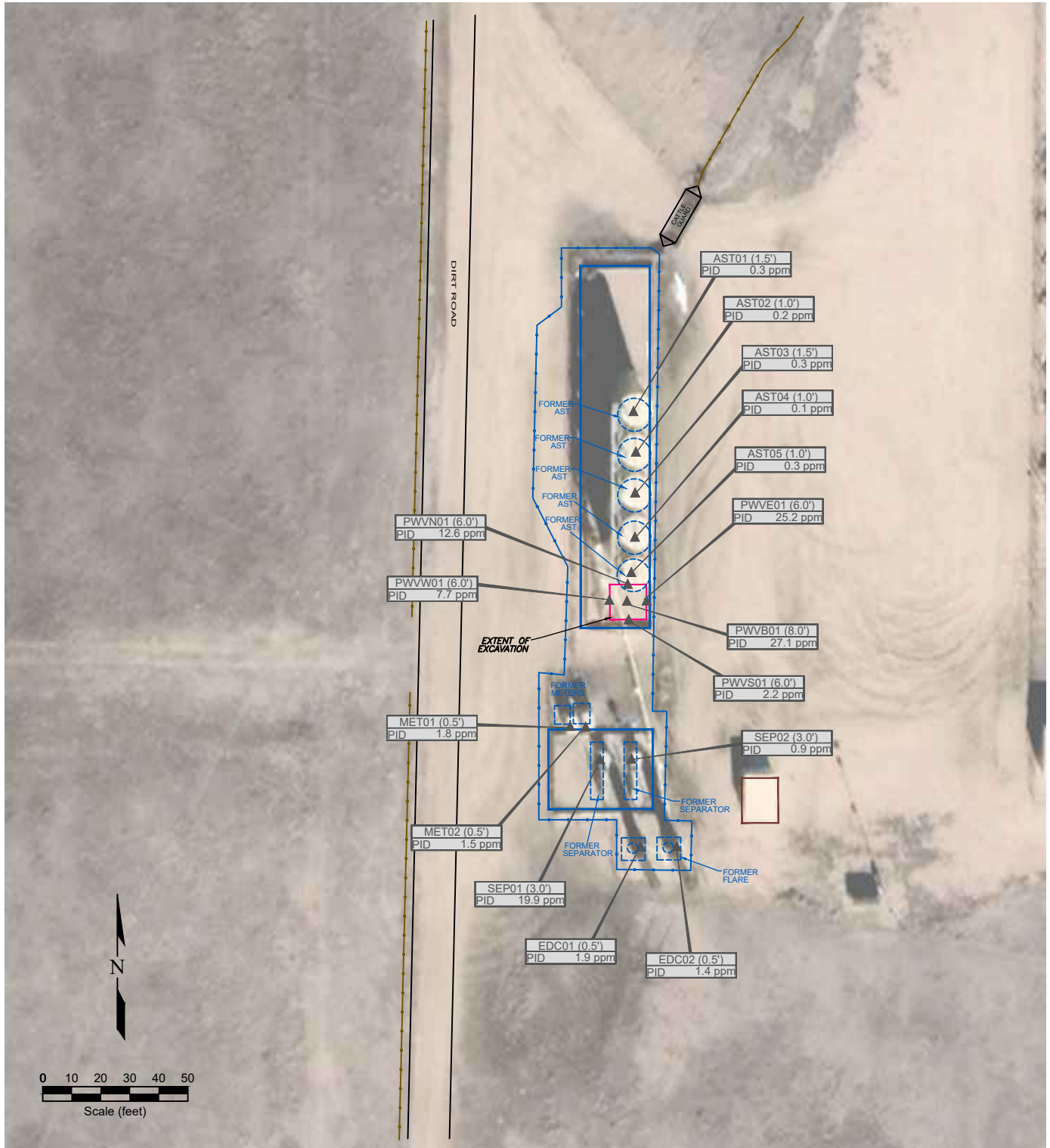
USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1
SITE LOCATION MAP

Noble Energy, Inc. ~ Ball Ranch AC 15-65HN
SWNW Sec. 15, T7N, R63W, 6th PM
Weld County, Colorado
40.575290°, -104.429520°

Project # C022-124	API # 05-123-35074	Drawn By TA
Date 11/29/22	Remediation # 23766	Filename 22124T






LEGEND

▲ PID READING LOCATION	○ ABOVE GROUND STORAGE TANK	FORMER FACILITY	BUILDING	BUILDING	CONTAINMENT WALL	EXTENT OF EXCAVATION	FENCE LINE
MET01 (0.5') PID 1.8 ppm							
PID READING LOCATION IDENTIFICATION PHOTO IONIZATION DETECTION (ppm)							

Figure 2
SITE MAP

Noble Energy, Inc. ~ Ball Ranch AC 15-03
 NWNW Sec. 15, T7N, R63W, 6th PM
 Weld County, Colorado
 40.577687°, -104.430380°

Project No. C022-124	Facility # 427188	Drawn By TA	
Date 12/22/22	Remediation # 23764	Filename 22124Q	

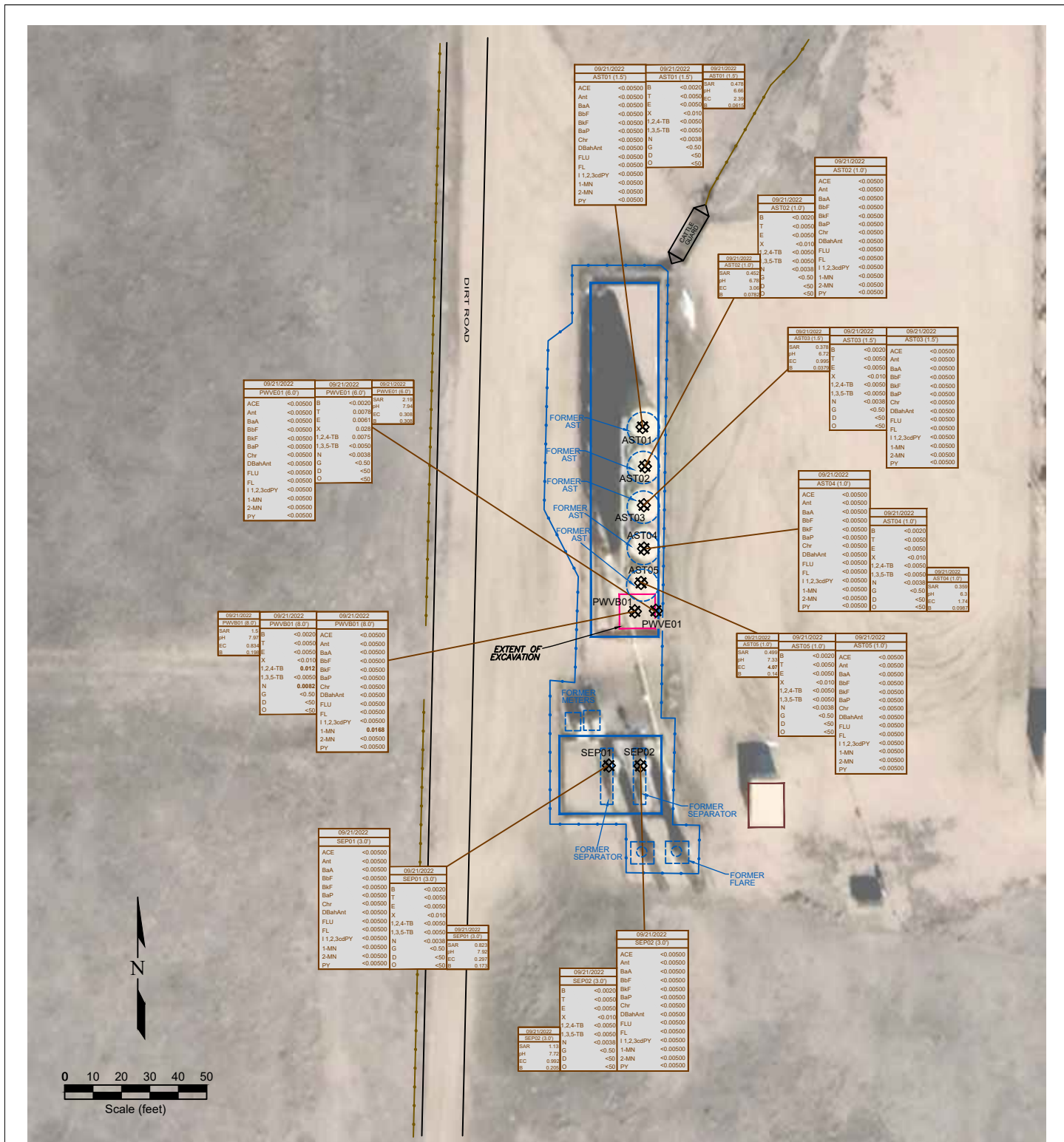


Figure 3
SOIL CHEMISTRY MAP

Noble Energy, Inc. ~ Ball Ranch AC 15-03
NWNW Sec. 15, T7N, R63W, 6th PM
Weld County, Colorado
40.577687°, -104.430380°

Project No.
C022-124

Facility #
427188

Drawn By
TA

Date
12/22/22

Remediation #
23764

Filename
22124Q



TABLE 1
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
BALL RANCH AC15-03, WELD COUNTY, COLORADO
FREMONT PROJECT C022-124

Sample ID	Sample Date	Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Xylenes (mg/kg)	1,2,4- Trimethyl- Benzene (mg/kg)	1,3,5- Trimethyl- Benzene (mg/kg)	Naphthalene (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)
COGCC Table 915-1 Limits (Residential SSL)			1.2	490	5.8	58	30	27	2	500		
COGCC Table 915-1 Limits (Protection of Groundwater SSL)			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500		
AST01@1.5'	09/21/2022	1.5'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
AST02@1'	09/21/2022	1'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
AST03@1.5'	09/21/2022	1.5'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
AST04@1'	09/21/2022	1'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
AST05@1'	09/21/2022	1'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
PWVB01@8'	09/21/2022	8'	<0.0020	<0.0050	<0.0050	<0.010	0.012	<0.0050	0.0082	<0.50	<50	<50
PWVE01@6'	09/21/2022	6'	<0.0020	0.0078	0.0061	0.028	0.0075	<0.0050	<0.0038	<0.50	<50	<50
SEP01@3'	09/21/2022	3'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
SEP02@3'	09/21/2022	3'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50

Bold faced values exceed the COGCC Table 915-1 concentrations

Red & blue highlighted 915-1 Limits indicate the referenced soil screening level (SSL)

* Summation of GRO+DRO+ORO must be less than 500 mg/kg

TABLE 2
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
BALL RANCH AC15-03, WELD COUNTY, COLORADO
FREMONT PROJECT C022-124

Sample ID	Sample Date	Depth (ft)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo (a) Anthracene (mg/kg)	Benzo (a) Pyrene (mg/kg)	Benzo (b) Fluoranthene (mg/kg)	Benzo (k) Fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo (a,h) Anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno (1,2,3- cd) Pyrene (mg/kg)	Pyrene (mg/kg)	1-Methyl - Naphthalene (mg/kg)	2-Methyl- Naphthalene (mg/kg)
COGCC Table 915-1 Limits (Residential SSL)			360	1800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180	18	24
COGCC Table 915-1 Limits (Protection of Groundwater SSL)			0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	1.3	0.006	0.019
AST01@1.5'	09/21/2022	1.5'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
AST02@1'	09/21/2022	1'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
AST03@1.5'	09/21/2022	1.5'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
AST04@1'	09/21/2022	1'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
AST05@1'	09/21/2022	1'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
PWVB01@8'	09/21/2022	8'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0168	<0.00500
PWVE01@6'	09/21/2022	6'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SEP01@3'	09/21/2022	3'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SEP02@3'	09/21/2022	3'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500

Bold faced values exceed the COGCC Table 915-1 concentrations

Red & blue highlighted 915-1 Limits indicate the referenced soil screening level (SSL)

TABLE 3
SUMMARY OF SOIL SUITABILITY FOR RECLAMATION
NOBLE ENERGY INC.
BALL RANCH AC15-03, WELD COUNTY, COLORADO
FREMONT PROJECT C022-124

Sample ID	Sample Date	Depth (ft)	EC (mmhos/cm)	pH	SAR	Boron (mg/L)
COGCC Table 915-1 Soil Suitability Limits			<4	6 - 8.3	<6	2
AST01@1.5'	09/21/2022	1.5'	2.39	6.66	0.478	0.0615
AST02@1'	09/21/2022	1'	3.06	6.78	0.452	0.0782
AST03@1.5'	09/21/2022	1.5'	0.995	6.72	0.378	0.0379
AST04@1'	09/21/2022	1'	1.74	6.3	0.359	0.0987
AST05@1'	09/21/2022	1'	4.07	7.33	0.499	0.14
PWVB01@8'	09/21/2022	8'	0.834	7.97	1.5	0.198
PWVE01@6'	09/21/2022	6'	0.308	7.94	2.19	0.308
SEP01@3'	09/21/2022	3'	0.297	7.92	0.823	0.173
SEP02@3'	09/21/2022	3'	0.992	7.72	1.13	0.205

Bold faced values exceed the COGCC Table 915-1 concentrations

Yellow highlighted 915-1 Limits indicate the referenced soil screening level (SSL)

Tank Battery Closure Checklist

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

Additional attachments (optional):		Pit Closure		Wellhead Closure		Flowline Closure		Partially Buried Vault Closure
Site Name & COGCC Facility Number: Ball Ranch AC15-03		Date: 9/21/2022						Remediation Project #: 23764
Associated Wells: 123-35074		Age of Site: Unknown						Number of Photos Attached: See attached
Location: (GPS coordinates of southeaster berm) 40.577720, -104.430380							Estimated Facility Size (acres):	
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.) Good condition, no observed issues.								
USCS Soil Type: ML and CL					Estimated Depth to Groundwater:			
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) No observed hydrocarbon impacted soil.								
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) No observed salt crusted soil or impacted vegetation.								
Tanks								
Tank Contents	Crude	Crude	Crude	Produced Water	Produced Water			
Size (barrels)	500	500	500	500	500			
Age								
Construction Material	Steel	Steel	Steel	Fiberglass	Fiberglass			
Tank type (AST/DRU, etc.)	AST	AST	AST	AST	AST			
Visual Integrity of Tank								
Condition of tank footprint	Good	Good	Good	Good	Good			
PID Readings	0.3 ppm	0.2 ppm	0.3 ppm	0.1 ppm	0.3 ppm			
Soil impacts present at valves or hatches?	None observed	None observed	None observed	None observed	None observed			
PID Readings								
Sample taken? Location/ Sample ID#	See attached							
Photo Number(s)	See attached							
Other observations regarding tanks: AST basin had intact liner. Soil samples were collected beneath the liner.								
Separators								
Separator size	Unknown	Unknown						
Vertical or Horizontal	Horizontal	Horizontal						
Age	Unknown	Unknown						
Soil impacts observed?	None observed	None observed						
PID Readings	19.9 ppm	0.9 ppm						
Sample taken? Location/ Sample ID#	See attached							
Photo Number(s)	See attached							
Other observations regarding separators								
Third Party Equipment								
Type	Meter Shed	Meter Shed						
Age	Unknown	Unknown						

Third Party <i>Owner</i>	Unknown	Unknown												
Removal Date	Unknown	Unknown												
Sample taken? <i>Location/Container</i>	See attached	See attached												
PID Readings	1.8 ppm	1.5 ppm												
Photo Number(s)	See attached	See attached												
Other Facility Equipment														
Equipment type	ECD	ECD												
Equipment <i>Condition</i>	Unknown	Unknown												
Age	Unknown	Unknown												
Soil impacts <i>Observed during</i>	None observed	None observed												
PID Readings	1.9 ppm	1.4 ppm												
Sample taken? <i>Location/Container</i>	See attached	See attached												
Photo Number(s)	See attached	See attached												
Other observations regarding other facility or third party equipment:														
Summary														
Was impacted soil identified?														
<div> <div>No</div> <div>Yes - less than 10 cubic yards</div> <div>Yes - more than 10 cubic yards</div> </div>														
Total number of samples field screened: 15					Total number of samples collected: 16									
Highest PID Reading: 27.1 ppm					Total number of samples submitted to lab for analysis: 9									
If more than 10 cubic yards of impacted soil were observed: N/A														
Vertical extent:					Estimated spill volume:									
Lateral extent:					Volume of soil removed:									
Is additional investigation required? Yes														
Was groundwater encountered during the investigation?														
<div> <div>No</div> <div>Yes - not impacted or in contact with impacted soils</div> <div>Yes - groundwater impacted and/or in contact with impacted soils</div> </div>														
Measured depth to groundwater:					Was remedial groundwater removal conducted? Yes No									
Date Groundwater was encountered:					Commencement date of removal:									
Sheen on groundwater? Yes No					Volume of groundwater removed prior to sampling:									
Free product observed? Yes No					Volume of groundwater removed post sampling:									
Total number of samples collected:					Total Volume of groundwater removed:									
Total number of samples submitted to lab for analysis:														

Buried or Partially Buried Vessel Closure Checklist

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

Additional attachments (optional):		Pit Closure		Wellhead Closure		Flowline Closure		Tank Battery Closure
Site Name & COGCC Facility Number: Ball Ranch AC15-03		Date: 9/21/2022						Remediation Project #: 23764
Associated Wells: 123-35074		Age of Site: Unknown						Number of Photos Attached: See attached
Location: (GPS coordinates of vault or southeastern tank berm for multiple) 40.577720, -104.430380								Estimated Facility Size (acres):
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.)								
Good Condition								
USCS Soil Type: ML and CL					Estimated Depth to Groundwater:			
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)								
No observed hydrocarbon impacted soil.								
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)								
No observed salt crusted soil or impacted vegetation.								
Buried or Partially Buried Vessels								
Tank Contents	Produced Water							
Size (barrels)	Unknown							
Age	Unknown							
Construction Material	Concrete							
Visual Integrity of Tank	Unknown							
Condition of tank	Unknown							
PID Readings								
Condition of								
PID Readings	2.2 to 27.1 ppm							
Sample taken? Location/Sample ID#	See attached							
Photo Number(s)	See attached							
Other observations regarding partially buried vessels:								
Summary								
Was impacted soil identified? Impacted soil reported at the base of the PWV excavation, no impacted soil has been removed.								
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: 27.1 ppm					Total number of samples submitted to lab for analysis: 2			
If more than 10 cubic yards of impacted soil were observed: N/A								
Vertical extent:					Estimated spill volume:			
Lateral extent:					Volume of soil removed:			
Is additional investigation required?								
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:								

Photo Log



Description:

Site Entrance

Photo Log



Description:

MET01@6"

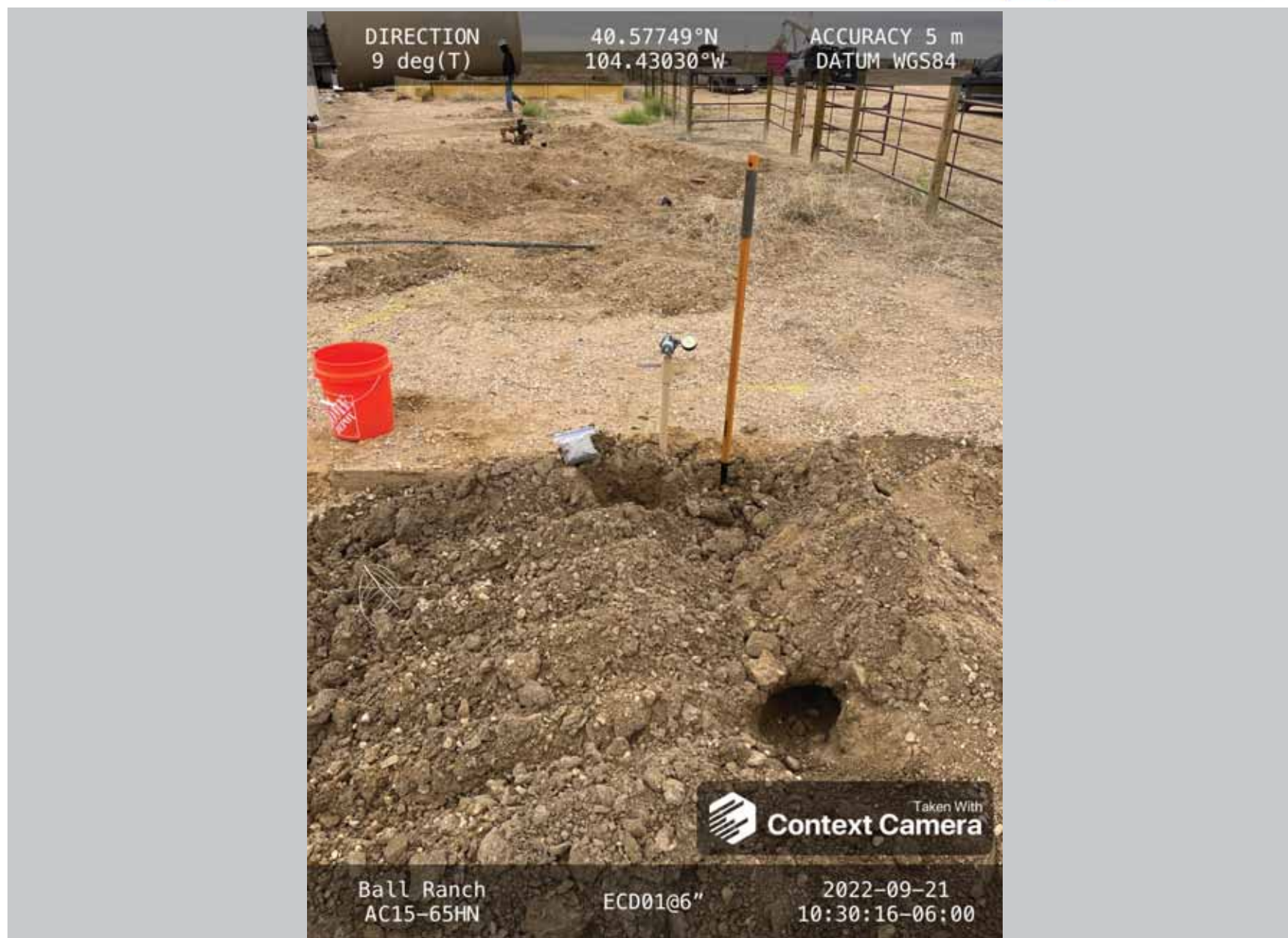
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Description:

MET02@6"

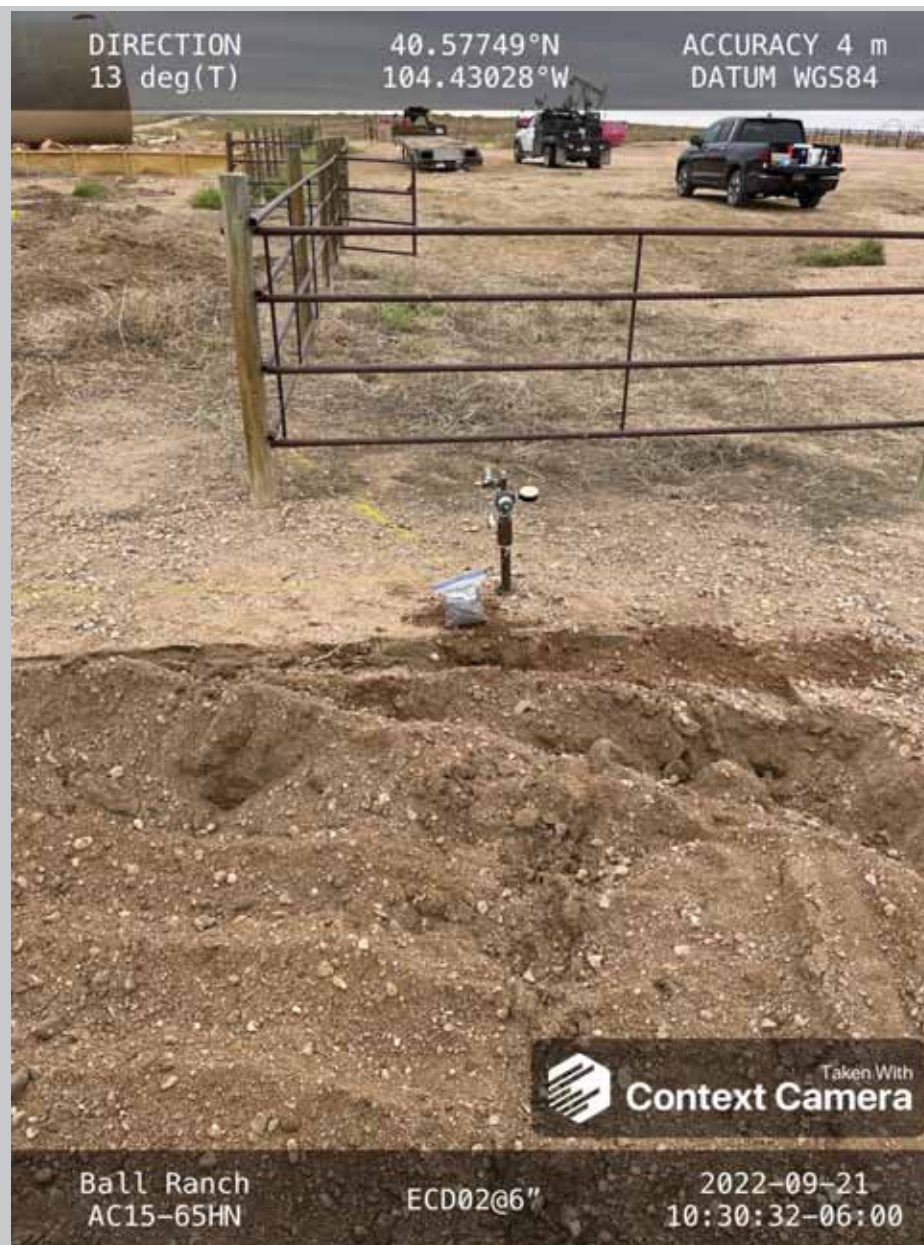
Photo Log



Description:

ECD01@6"

Photo Log



Description:

ECD02@6"

Photo Log

DIRECTION
17 deg(T)

40.57752°N
104.43036°W

ACCURACY 5 m
DATUM WGS84



Description:

Former Separator Locations

Photo Log



Description:

SEP01@3'

Photo Log



Description:

SEP02@3'

Photo Log

DIRECTION
337 deg(T)

40.57769°N
104.43031°W

ACCURACY 5 m
DATUM WGS84



Taken With
Context Camera

Ball Ranch AC15-65HN

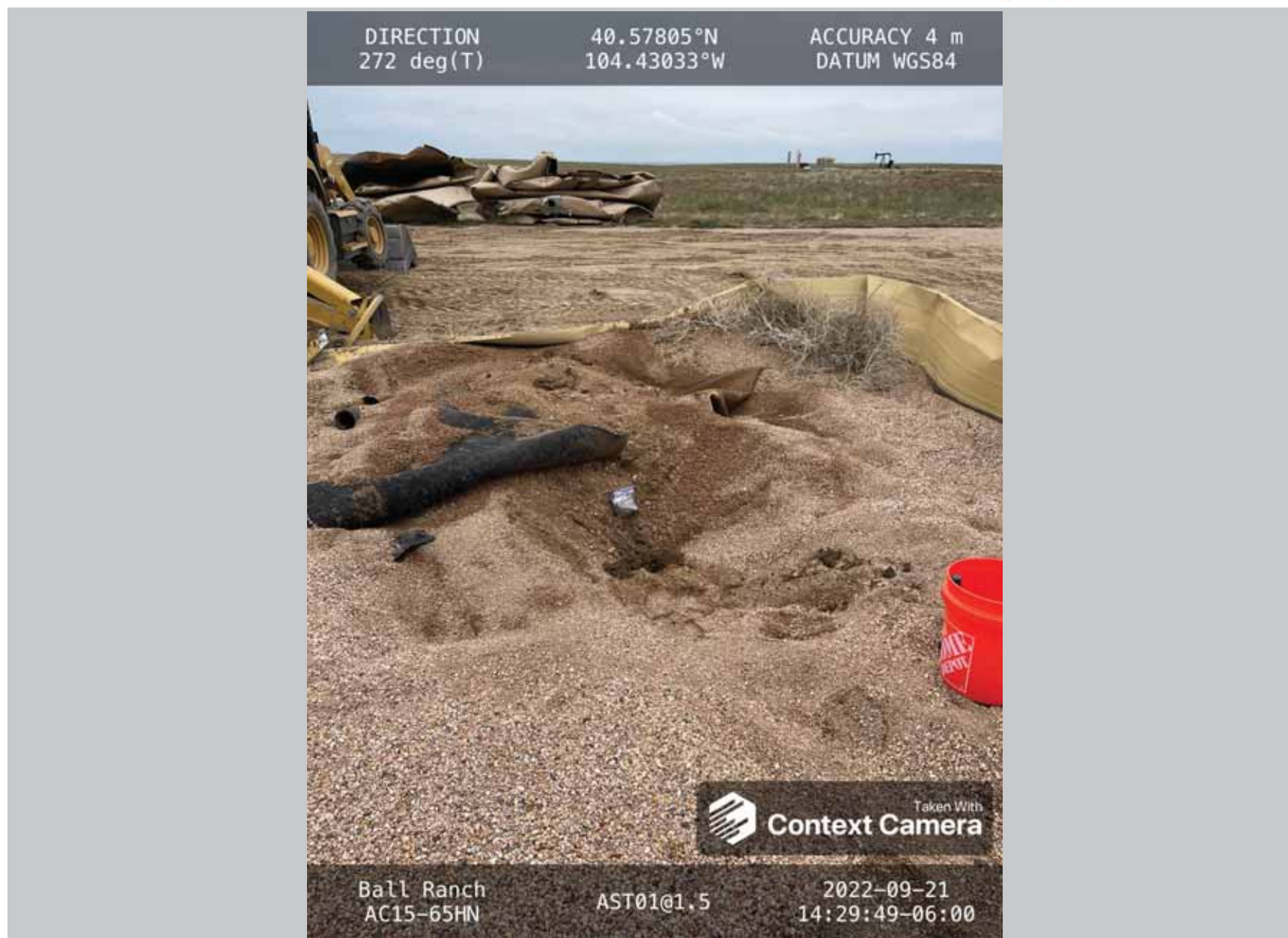
Tanks

2022-09-21
10:53:16-06:00

Description:

Lined AST Containment

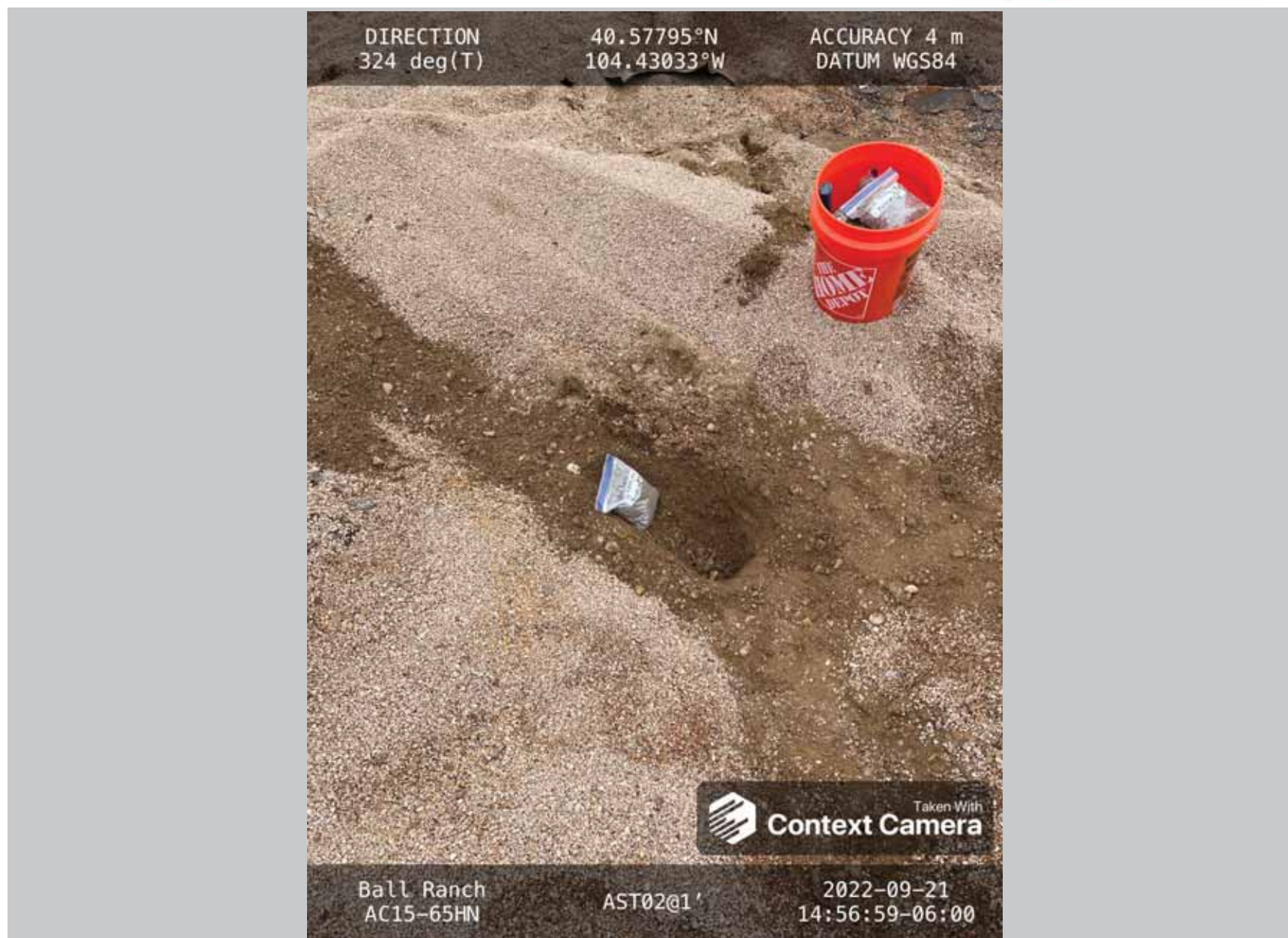
Photo Log



Description:

AST01@1.5'

Photo Log



Description:

AST02@1'

Photo Log



Description:

AST03@1.5'

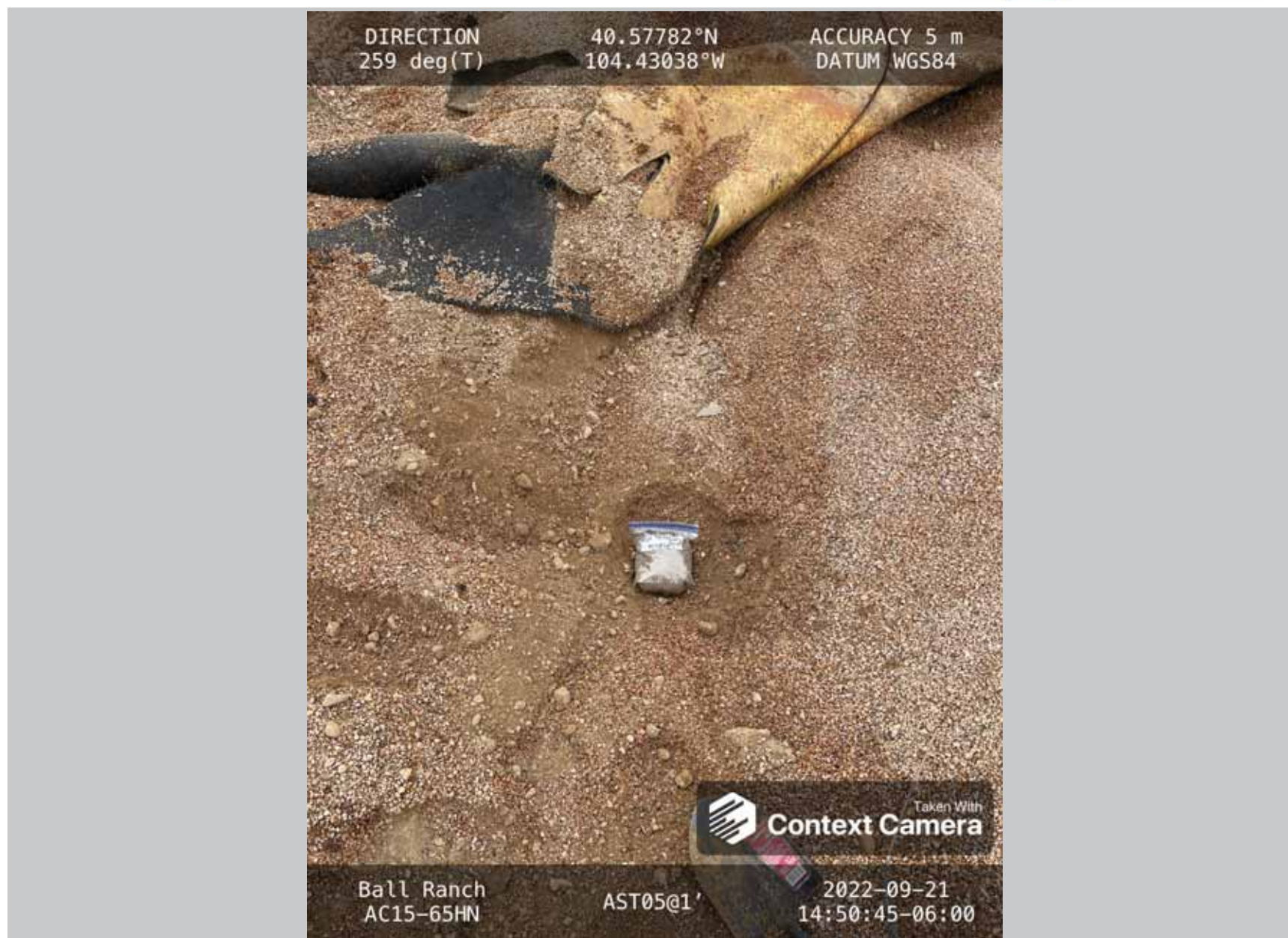
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Description:

AST04@1'

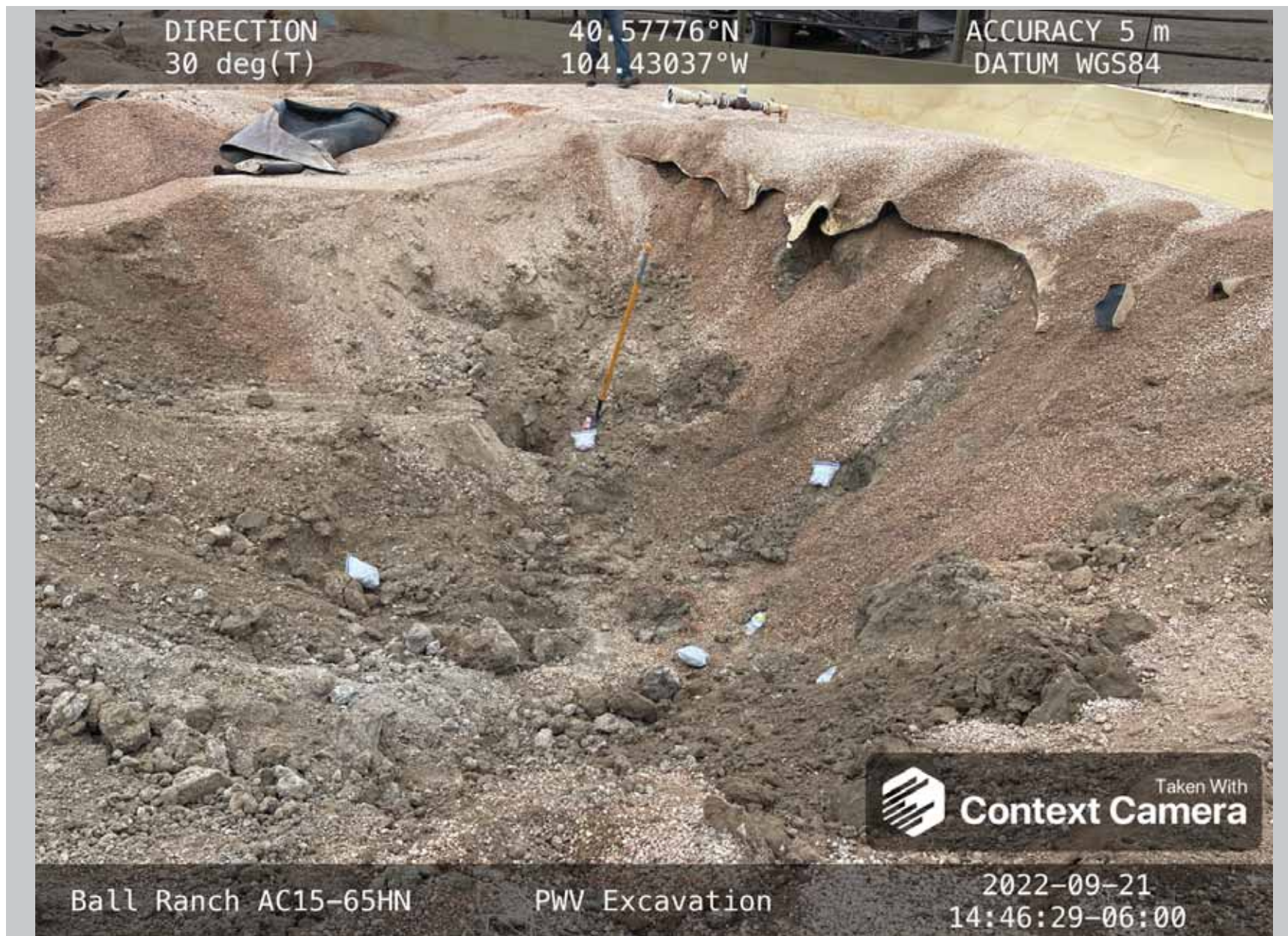
Photo Log



Description:

AST05@1'

Photo Log



Description:

PWV Excavation with Samples Facing NE

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

October 05, 2022

Paul Henehan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: Ball Ranch AC15-03
Work Order #2209453

Enclosed are the results of analyses for samples received by Summit Scientific on 09/22/22 12:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mikayla Axtell For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Ball Ranch AC15-03

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/05/22 14:39

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SEP01@3'	2209453-01	Soil	09/21/22 00:00	09/22/22 12:50
SEP02@3'	2209453-02	Soil	09/21/22 00:00	09/22/22 12:50
AST01@1.5'	2209453-03	Soil	09/21/22 00:00	09/22/22 12:50
AST02@1'	2209453-04	Soil	09/21/22 00:00	09/22/22 12:50
AST03@1.5'	2209453-05	Soil	09/21/22 00:00	09/22/22 12:50
AST04@1'	2209453-06	Soil	09/21/22 00:00	09/22/22 12:50
AST05@1'	2209453-07	Soil	09/21/22 00:00	09/22/22 12:50
PWVB01@8'	2209453-08	Soil	09/21/22 00:00	09/22/22 12:50
PWVE01@6'	2209453-12	Soil	09/21/22 00:00	09/22/22 12:50

Summit Scientific

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.

Summit Scientific

S₂

2209453.1

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310 ♦ 303-374-5933 (f)

Page 1 of 2

Client: Fremont Environmental

Project Manager: Paul Henehan

Address:

E-Mail: Fremont Distribution List: PaulH, EthanB, JeffG and ChrisL. @fremontenv.com

City/State/Zip:

Bill to Noble:

Phone:

Project Name: Ball Ranch AC15-03

Sampler Name: Chris Latter

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested								Special Instructions
					HCl	HNO ₃	None	Other	Water	Soil	Air-Canister #	Other	TPH, BTEX, TMBs, Naph.	PAH (915)	EC, SAR, pH, Boron	Metals (915)	TDS, Chloride, Sulfate	HOLD			
1	SEP01 @ 3'	9/21/22		3			X			X				X	X	X					
2	SEP02 @ 3'			1																	
3	AST01 @ 1.5'			1																	
4	AST02 @ 4.5-5'			1																	
5	AST03 @ 1.5'			1																	
6	AST04 @ 1'			1																	
7	AST05 @ 1'			1																	
8	PWVB01 @ 3'			1										X	X	X					
9	PWVB01 @ 6'			1																X	
10	PWVB01 @ 6'	9/21/22		3			X			X										X	

Relinquished by: Chris Latter Date/Time: 9/22/22 12:50

Relinquished by: _____ Date/Time: _____

Relinquished by: _____ Date/Time: _____

Received by: [Signature] Date/Time: 9/22/22 12:50

Received by: _____ Date/Time: _____

Received by: _____ Date/Time: _____

Turn Around Time (Check)

Same Day _____ 72 hours _____

24 hours _____ Standard X

48 hours _____

Sample Integrity:

Temperature Upon Receipt: 8.9

Samples Intact: Yes No

Notes:

Facility

Summit Scientific

S₂

2209453.2

4653 Table Mountain Drive ♦ Golden, Colorado 80403
303-277-9310 ♦ 303-374-5933 (f)

Page 2 of 2

Client: Fremont Environmental

Project Manager: Paul Henehan

Address:

E-Mail: Fremont Distribution List: PaulH, EthanB, JeffG and ChrisL. @fremontenv.com

City/State/Zip:

Bill to Noble:

Phone:

Project Name: Ball Ranch AC15-03

Sampler Name: Chris Lattus


Project Number:

					Preservative				Matrix				Analysis Requested								Special Instructions
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO ₃	None	Other	Water	Soil	Air-Canister #	Other	TPH, BTEX, TMBs, Naph	PAH (915)	EC, SAR, pH, Boron	Metals (915)	TDS, Chloride, Sulfate		HOLD		
1	PWVNG1 @ 6'	9/21/22		3			X			X									X		
2	PWVEG1 @ 6'	↓		3			X			X			X	X	X						
3	BKGG1 @ 6"	9/21/22		1			X			X									X		
4																					
5																					
6																					
7																					
8																					
9																					
10																					

Relinquished by: Date/Time: 12:50
Chris Lattus 9/22/22

Relinquished by: Date/Time:

Relinquished by: Date/Time:

Received by:  Date/Time: 9/22/22 1250

Received by: Date/Time:

Received by: Date/Time:

Turn Around Time (Check)
 Same Day — 72 hours
 24 hours — Standard ☒
 48 hours —
 Sample Integrity:
 Temperature Upon Receipt: 89
 Samples Intact: ☒ Yes ☐ No

Notes:
Facility

S₂2/2
Sample Receipt Checklist

S2 Work Order# 2209453

Client: Fremont Client Project ID: Ball Ranch AC 15-03Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐☐ ☐ ☐ ☐ ☐Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 8.9Thermometer # 1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	CUTIE
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Comments (if any):

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.

Custodian Printed Name

Date/Time

9.22.22

19:40



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Ball Ranch AC15-03

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/05/22 14:39

SEP01@3'
2209453-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BF10696	09/27/22	09/28/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		109 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		93.0 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.2 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BF10698	09/27/22	09/28/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		81.0 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Ball Ranch AC15-03

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/05/22 14:39

SEP01@3'
2209453-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BF10691	09/27/22	09/27/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		48.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		72.7 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.173	0.0100	mg/L	1	BF10718	09/28/22	10/01/22	EPA 6020B	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Ball Ranch AC15-03

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/05/22 14:39

SEP01@3'
2209453-01 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Calcium	27.8	0.0579	mg/L dry	1	BF10769	09/29/22	10/05/22	EPA 6020B
Magnesium	7.41	0.0579	"	"	"	"	"	"
Sodium	18.9	0.0579	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.823	0.00100	units	1	BFJ0107	10/05/22	10/05/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.3		%	1	BF10762	09/29/22	09/29/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.297	0.0100	mmhos/cm	1	BF10771	09/29/22	09/30/22	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.92		pH Units	1	BF10772	09/29/22	09/30/22	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Ball Ranch AC15-03

Project Number: [none]
Project Manager: Paul Henehan

Reported:
10/05/22 14:39

SEP02@3'
2209453-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BF10696	09/27/22	09/28/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		114 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		93.0 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BF10698	09/27/22	09/28/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		61.5 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Ball Ranch AC15-03

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/05/22 14:39

SEP02@3'
2209453-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BF10691	09/27/22	09/27/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		46.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		70.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.205	0.0100	mg/L	1	BF10718	09/28/22	10/01/22	EPA 6020B	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Ball Ranch AC15-03

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/05/22 14:39

SEP02@3'
2209453-02 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Calcium	95.4	0.0597	mg/L dry	1	BF10769	09/29/22	10/05/22	EPA 6020B
Magnesium	38.6	0.0597	"	"	"	"	"	"
Sodium	51.7	0.0597	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.13	0.00100	units	1	BFJ0107	10/05/22	10/05/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.7		%	1	BF10762	09/29/22	09/29/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.992	0.0100	mmhos/cm	1	BF10771	09/29/22	09/30/22	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.72		pH Units	1	BF10772	09/29/22	09/30/22	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Ball Ranch AC15-03

Project Number: [none]
Project Manager: Paul Henehan

Reported:
10/05/22 14:39

AST01@1.5'
2209453-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BF10696	09/27/22	09/28/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		103 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		92.3 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.9 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BF10698	09/27/22	09/28/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		81.2 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Ball Ranch AC15-03

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/05/22 14:39

AST01@1.5'
2209453-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BF10691	09/27/22	09/27/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		53.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		74.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0615	0.0100	mg/L	1	BF10718	09/28/22	10/01/22	EPA 6020B	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Ball Ranch AC15-03

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/05/22 14:39

AST01@1.5'
2209453-03 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Calcium	234	0.0562	mg/L dry	1	BF10769	09/29/22	10/05/22	EPA 6020B
Magnesium	91.9	0.0562	"	"	"	"	"	"
Sodium	34.1	0.0562	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.478	0.00100	units	1	BFJ0107	10/05/22	10/05/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.0		%	1	BF10762	09/29/22	09/29/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.39	0.0100	mmhos/cm	1	BF10771	09/29/22	09/30/22	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.66		pH Units	1	BF10772	09/29/22	09/30/22	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Ball Ranch AC15-03

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/05/22 14:39

AST02@1'
2209453-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BF10696	09/27/22	09/28/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		112 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		96.3 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BF10698	09/27/22	09/28/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		88.2 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Ball Ranch AC15-03

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/05/22 14:39

AST02@1'
2209453-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BF10691	09/27/22	09/27/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		49.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		71.8 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0782	0.0100	mg/L	1	BF10718	09/28/22	10/01/22	EPA 6020B	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Ball Ranch AC15-03

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/05/22 14:39

AST02@1'
2209453-04 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Calcium	345	0.0572	mg/L dry	1	BF10769	09/29/22	10/05/22	EPA 6020B
Magnesium	109	0.0572	"	"	"	"	"	"
Sodium	37.6	0.0572	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.452	0.00100	units	1	BFJ0107	10/05/22	10/05/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.4		%	1	BF10762	09/29/22	09/29/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.06	0.0100	mmhos/cm	1	BF10771	09/29/22	09/30/22	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.78		pH Units	1	BF10772	09/29/22	09/30/22	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Ball Ranch AC15-03

Project Number: [none]
Project Manager: Paul Henehan

Reported:
10/05/22 14:39

AST03@1.5'
2209453-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BF10696	09/27/22	09/28/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		120 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		96.4 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BF10698	09/27/22	09/28/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		84.6 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Ball Ranch AC15-03

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/05/22 14:39

AST03@1.5'
2209453-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BF10691	09/27/22	09/27/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		50.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		72.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0379	0.0100	mg/L	1	BF10718	09/28/22	10/01/22	EPA 6020B	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Ball Ranch AC15-03

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/05/22 14:39

AST03@1.5'
2209453-05 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Calcium	79.9	0.0535	mg/L dry	1	BF10769	09/29/22	10/05/22	EPA 6020B
Magnesium	32.7	0.0535	"	"	"	"	"	"
Sodium	15.9	0.0535	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.378	0.00100	units	1	BFJ0107	10/05/22	10/05/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.4		%	1	BF10762	09/29/22	09/29/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.995	0.0100	mmhos/cm	1	BF10771	09/29/22	09/30/22	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.72		pH Units	1	BF10772	09/29/22	09/30/22	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Ball Ranch AC15-03

Project Number: [none]
Project Manager: Paul Henehan

Reported:
10/05/22 14:39

AST04@1'
2209453-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BF10696	09/27/22	09/28/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		110 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		94.0 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BF10698	09/27/22	09/28/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		80.4 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Ball Ranch AC15-03

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/05/22 14:39

AST04@1'
2209453-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BF10691	09/27/22	09/28/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		54.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		69.7 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0987	0.0100	mg/L	1	BF10718	09/28/22	10/01/22	EPA 6020B	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Ball Ranch AC15-03

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/05/22 14:39

AST04@1'
2209453-06 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Calcium	158	0.0578	mg/L dry	1	BF10769	09/29/22	10/05/22	EPA 6020B
Magnesium	64.2	0.0578	"	"	"	"	"	"
Sodium	21.2	0.0578	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.359	0.00100	units	1	BFJ0107	10/05/22	10/05/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.5		%	1	BF10762	09/29/22	09/29/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.74	0.0100	mmhos/cm	1	BF10771	09/29/22	09/30/22	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.30		pH Units	1	BF10772	09/29/22	09/30/22	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Ball Ranch AC15-03

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/05/22 14:39

AST05@1'
2209453-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BF10696	09/27/22	09/28/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		114 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		98.5 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.8 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BF10698	09/27/22	09/28/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		67.3 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Ball Ranch AC15-03

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/05/22 14:39

AST05@1'
2209453-07 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BF10691	09/27/22	09/28/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		52.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		76.8 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.140	0.0100	mg/L	1	BF10718	09/28/22	10/01/22	EPA 6020B	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Ball Ranch AC15-03

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/05/22 14:39

AST05@1'
2209453-07 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Calcium	458	0.0559	mg/L dry	1	BF10769	09/29/22	10/05/22	EPA 6020B
Magnesium	158	0.0559	"	"	"	"	"	"
Sodium	48.6	0.0559	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.499	0.00100	units	1	BFJ0107	10/05/22	10/05/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.4		%	1	BF10762	09/29/22	09/29/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	4.07	0.0100	mmhos/cm	1	BF10771	09/29/22	09/30/22	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.33		pH Units	1	BF10772	09/29/22	09/30/22	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Ball Ranch AC15-03

Project Number: [none]
Project Manager: Paul Henehan

Reported:
10/05/22 14:39

PWVB01@8'
2209453-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BF10696	09/27/22	09/28/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.012	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	0.0082	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		105 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		94.0 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.9 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BF10698	09/27/22	09/28/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		80.3 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Ball Ranch AC15-03

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/05/22 14:39

PWVB01@8'
2209453-08 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BF10691	09/27/22	09/28/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.0168	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		48.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		59.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.198	0.0100	mg/L	1	BF10718	09/28/22	10/01/22	EPA 6020B	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Ball Ranch AC15-03

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/05/22 14:39

PWVB01@8'
2209453-08 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Calcium	58.1	0.0546	mg/L dry	1	BF10769	09/29/22	10/05/22	EPA 6020B
Magnesium	29.8	0.0546	"	"	"	"	"	"
Sodium	56.3	0.0546	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.50	0.00100	units	1	BFJ0107	10/05/22	10/05/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.6		%	1	BF10762	09/29/22	09/29/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.834	0.0100	mmhos/cm	1	BF10771	09/29/22	09/30/22	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.97		pH Units	1	BF10772	09/29/22	09/30/22	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Ball Ranch AC15-03

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/05/22 14:39

PWVE01@6'
2209453-12 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BF10696	09/27/22	09/28/22	EPA 8260B	
Toluene	0.0078	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.0061	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.028	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.0075	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		114 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		94.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BF10698	09/27/22	09/28/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		75.5 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Ball Ranch AC15-03

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/05/22 14:39

PWVE01@6'
2209453-12 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BF10691	09/27/22	09/28/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		42.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		64.9 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.308	0.0100	mg/L	1	BF10718	09/28/22	10/01/22	EPA 6020B	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Ball Ranch AC15-03

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/05/22 14:39

PWVE01@6'
2209453-12 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Calcium	257	0.0619	mg/L dry	1	BF10769	09/29/22	10/05/22	EPA 6020B
Magnesium	119	0.0619	"	"	"	"	"	"
Sodium	169	0.0619	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.19	0.00100	units	1	BFJ0107	10/05/22	10/05/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.8		%	1	BF10762	09/29/22	09/29/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.308	0.0100	mmhos/cm	1	BF10771	09/29/22	09/30/22	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.94		pH Units	1	BF10772	09/29/22	09/30/22	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Ball Ranch AC15-03

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/05/22 14:39

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch BFI0696 - EPA 5030 Soil MS

Blank (BFI0696-BLK1)

Prepared & Analyzed: 09/27/22

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0415		"	0.0400		104	50-150			
Surrogate: Toluene-d8	0.0368		"	0.0400		92.1	50-150			
Surrogate: 4-Bromofluorobenzene	0.0398		"	0.0400		99.4	50-150			

LCS (BFI0696-BS1)

Prepared & Analyzed: 09/27/22

Benzene	0.0566	0.0020	mg/kg	0.0750		75.4	70-130			
Toluene	0.0661	0.0050	"	0.0750		88.1	70-130			
Ethylbenzene	0.0552	0.0050	"	0.0750		73.6	70-130			
m,p-Xylene	0.109	0.010	"	0.150		72.5	70-130			
o-Xylene	0.0583	0.0050	"	0.0750		77.7	70-130			
1,2,4-Trimethylbenzene	0.0545	0.0050	"	0.0750		72.7	70-130			
1,3,5-Trimethylbenzene	0.0533	0.0050	"	0.0750		71.1	70-130			
Naphthalene	0.0537	0.0038	"	0.0750		71.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0387		"	0.0400		96.7	50-150			
Surrogate: Toluene-d8	0.0406		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0388		"	0.0400		97.0	50-150			

Matrix Spike (BFI0696-MS1)

Source: 2209452-01

Prepared & Analyzed: 09/27/22

Benzene	0.0624	0.0020	mg/kg	0.0750	ND	83.2	70-130			
Toluene	0.0623	0.0050	"	0.0750	ND	83.1	70-130			
Ethylbenzene	0.0550	0.0050	"	0.0750	ND	73.3	70-130			
m,p-Xylene	0.119	0.010	"	0.150	ND	79.4	70-130			
o-Xylene	0.0588	0.0050	"	0.0750	ND	78.4	70-130			
1,2,4-Trimethylbenzene	0.0586	0.0050	"	0.0750	ND	78.1	70-130			
1,3,5-Trimethylbenzene	0.0555	0.0050	"	0.0750	ND	74.0	70-130			
Naphthalene	0.0643	0.0038	"	0.0750	ND	85.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0413		"	0.0400		103	50-150			
Surrogate: Toluene-d8	0.0394		"	0.0400		98.4	50-150			
Surrogate: 4-Bromofluorobenzene	0.0413		"	0.0400		103	50-150			

Summit Scientific

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.



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Ball Ranch AC15-03

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/05/22 14:39

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch BFI0696 - EPA 5030 Soil MS

Matrix Spike Dup (BFI0696-MSD1)

Source: 2209452-01

Prepared & Analyzed: 09/27/22

Benzene	0.0632	0.0020	mg/kg	0.0750	ND	84.3	70-130	1.24	30	
Toluene	0.0640	0.0050	"	0.0750	ND	85.4	70-130	2.66	30	
Ethylbenzene	0.0530	0.0050	"	0.0750	ND	70.7	70-130	3.61	30	
m,p-Xylene	0.119	0.010	"	0.150	ND	79.5	70-130	0.227	30	
o-Xylene	0.0566	0.0050	"	0.0750	ND	75.5	70-130	3.69	30	
1,2,4-Trimethylbenzene	0.0546	0.0050	"	0.0750	ND	72.8	70-130	7.10	30	
1,3,5-Trimethylbenzene	0.0536	0.0050	"	0.0750	ND	71.4	70-130	3.63	30	
Naphthalene	0.0633	0.0038	"	0.0750	ND	84.4	70-130	1.51	30	
Surrogate: 1,2-Dichloroethane-d4	0.0417		"	0.0400		104	50-150			
Surrogate: Toluene-d8	0.0419		"	0.0400		105	50-150			
Surrogate: 4-Bromofluorobenzene	0.0383		"	0.0400		95.8	50-150			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Ball Ranch AC15-03

Project Number: [none]
Project Manager: Paul Henehan

Reported:
10/05/22 14:39

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch BFI0698 - EPA 3550A

Blank (BFI0698-BLK1)

Prepared: 09/27/22 Analyzed: 09/28/22

C10-C28 (DRO)	ND	50	mg/kg
C28-C36 (ORO)	ND	50	"

LCS (BFI0698-BS1)

Prepared: 09/27/22 Analyzed: 09/28/22

C10-C28 (DRO)	584	50	mg/kg	500	117	70-130
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Matrix Spike (BFI0698-MS1)

Source: 2209452-01

Prepared: 09/27/22 Analyzed: 09/28/22

C10-C28 (DRO)	543	50	mg/kg	500	41.6	100	70-130
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Matrix Spike Dup (BFI0698-MSD1)

Source: 2209452-01

Prepared: 09/27/22 Analyzed: 09/28/22

C10-C28 (DRO)	592	50	mg/kg	500	41.6	110	70-130	8.65	20
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Ball Ranch AC15-03
Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/05/22 14:39

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

Analyte	Reporting			Spike		Source		%REC		RPD	
	Result	Limit	Units	Level		Result		%REC	Limits	RPD	Limit

Batch BFI0691 - EPA 5030 Soil MS

Blank (BFI0691-BLK1)

Prepared & Analyzed: 09/27/22

Acenaphthene	ND	0.00500	mg/kg								
Anthracene	ND	0.00500	"								
Benzo (a) anthracene	ND	0.00500	"								
Benzo (a) pyrene	ND	0.00500	"								
Benzo (b) fluoranthene	ND	0.00500	"								
Benzo (k) fluoranthene	ND	0.00500	"								
Chrysene	ND	0.00500	"								
Dibenz (a,h) anthracene	ND	0.00500	"								
Fluoranthene	ND	0.00500	"								
Fluorene	ND	0.00500	"								
Indeno (1,2,3-cd) pyrene	ND	0.00500	"								
Pyrene	ND	0.00500	"								
1-Methylnaphthalene	ND	0.00500	"								
2-Methylnaphthalene	ND	0.00500	"								
Surrogate: 2-Methylnaphthalene-d10	0.0262		"	0.0333		78.5		40-150			
Surrogate: Fluoranthene-d10	0.0342		"	0.0333		103		40-150			

LCS (BFI0691-BS1)

Prepared & Analyzed: 09/27/22

Acenaphthene	0.0312	0.00500	mg/kg	0.0333		93.5		31-137			
Anthracene	0.0301	0.00500	"	0.0333		90.4		30-120			
Benzo (a) anthracene	0.0286	0.00500	"	0.0333		85.8		30-120			
Benzo (a) pyrene	0.0244	0.00500	"	0.0333		73.1		30-120			
Benzo (b) fluoranthene	0.0249	0.00500	"	0.0333		74.7		30-120			
Benzo (k) fluoranthene	0.0327	0.00500	"	0.0333		98.2		30-120			
Chrysene	0.0348	0.00500	"	0.0333		104		30-120			
Dibenz (a,h) anthracene	0.0198	0.00500	"	0.0333		59.4		30-120			
Fluoranthene	0.0309	0.00500	"	0.0333		92.7		30-120			
Fluorene	0.0320	0.00500	"	0.0333		96.1		30-120			
Indeno (1,2,3-cd) pyrene	0.0188	0.00500	"	0.0333		56.4		30-120			
Pyrene	0.0355	0.00500	"	0.0333		107		35-142			
1-Methylnaphthalene	0.0277	0.00500	"	0.0333		83.1		35-142			
2-Methylnaphthalene	0.0312	0.00500	"	0.0333		93.6		35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0308		"	0.0333		92.4		40-150			
Surrogate: Fluoranthene-d10	0.0310		"	0.0333		93.1		40-150			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Ball Ranch AC15-03

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/05/22 14:39

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

Analyte	Reporting			Spike Level	Source		%REC		RPD	
	Result	Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

Batch BFI0691 - EPA 5030 Soil MS

Matrix Spike (BFI0691-MS1)

Source: 2209453-01

Prepared & Analyzed: 09/27/22

Acenaphthene	0.0197	0.00500	mg/kg	0.0333	ND	59.1	31-137		
Anthracene	0.0204	0.00500	"	0.0333	ND	61.3	30-120		
Benzo (a) anthracene	0.0199	0.00500	"	0.0333	0.00176	54.5	30-120		
Benzo (a) pyrene	0.0153	0.00500	"	0.0333	ND	45.8	30-120		
Benzo (b) fluoranthene	0.0155	0.00500	"	0.0333	ND	46.6	30-120		
Benzo (k) fluoranthene	0.0172	0.00500	"	0.0333	ND	51.6	30-120		
Chrysene	0.0221	0.00500	"	0.0333	ND	66.3	30-120		
Dibenz (a,h) anthracene	0.0156	0.00500	"	0.0333	ND	46.8	30-120		
Fluoranthene	0.0211	0.00500	"	0.0333	ND	63.4	30-120		
Fluorene	0.0205	0.00500	"	0.0333	ND	61.6	30-120		
Indeno (1,2,3-cd) pyrene	0.0151	0.00500	"	0.0333	ND	45.3	30-120		
Pyrene	0.0223	0.00500	"	0.0333	ND	66.9	35-142		
1-Methylnaphthalene	0.0184	0.00500	"	0.0333	0.00352	44.5	15-130		
2-Methylnaphthalene	0.0231	0.00500	"	0.0333	ND	69.3	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0171		"	0.0333		51.2	40-150		
Surrogate: Fluoranthene-d10	0.0223		"	0.0333		66.9	40-150		

Matrix Spike Dup (BFI0691-MSD1)

Source: 2209453-01

Prepared & Analyzed: 09/27/22

Acenaphthene	0.0202	0.00500	mg/kg	0.0333	ND	60.7	31-137	2.63	30
Anthracene	0.0205	0.00500	"	0.0333	ND	61.6	30-120	0.633	30
Benzo (a) anthracene	0.0205	0.00500	"	0.0333	0.00176	56.2	30-120	2.89	30
Benzo (a) pyrene	0.0156	0.00500	"	0.0333	ND	46.7	30-120	1.86	30
Benzo (b) fluoranthene	0.0164	0.00500	"	0.0333	ND	49.1	30-120	5.24	30
Benzo (k) fluoranthene	0.0165	0.00500	"	0.0333	ND	49.6	30-120	3.86	30
Chrysene	0.0209	0.00500	"	0.0333	ND	62.7	30-120	5.50	30
Dibenz (a,h) anthracene	0.0160	0.00500	"	0.0333	ND	47.9	30-120	2.27	30
Fluoranthene	0.0205	0.00500	"	0.0333	ND	61.5	30-120	3.04	30
Fluorene	0.0202	0.00500	"	0.0333	ND	60.6	30-120	1.58	30
Indeno (1,2,3-cd) pyrene	0.0141	0.00500	"	0.0333	ND	42.3	30-120	6.89	30
Pyrene	0.0220	0.00500	"	0.0333	ND	65.9	35-142	1.50	30
1-Methylnaphthalene	0.0212	0.00500	"	0.0333	0.00352	53.0	15-130	14.3	50
2-Methylnaphthalene	0.0205	0.00500	"	0.0333	ND	61.6	15-130	11.8	50
Surrogate: 2-Methylnaphthalene-d10	0.0195		"	0.0333		58.6	40-150		
Surrogate: Fluoranthene-d10	0.0216		"	0.0333		64.9	40-150		

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Ball Ranch AC15-03

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/05/22 14:39

Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch BFI0718 - EPA 3050B

Blank (BFI0718-BLK1)

Prepared: 09/28/22 Analyzed: 10/01/22

Boron ND 0.0100 mg/L

LCS (BFI0718-BS1)

Prepared: 09/28/22 Analyzed: 10/01/22

Boron 5.08 0.0100 mg/L 5.00 102 80-120

Duplicate (BFI0718-DUP1)

Source: 2209452-01

Prepared: 09/28/22 Analyzed: 10/01/22

Boron 0.200 0.0100 mg/L 0.199 0.386 20

Matrix Spike (BFI0718-MS1)

Source: 2209452-01

Prepared: 09/28/22 Analyzed: 10/01/22

Boron 5.08 0.0100 mg/L 5.00 0.199 97.5 75-125

Matrix Spike Dup (BFI0718-MSD1)

Source: 2209452-01

Prepared: 09/28/22 Analyzed: 10/01/22

Boron 5.11 0.0100 mg/L 5.00 0.199 98.2 75-125 0.620 25

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Ball Ranch AC15-03

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/05/22 14:39

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control
Summit Scientific

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD	
		Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

Batch BFI0769 - General Preparation

Blank (BFI0769-BLK1)

Prepared: 09/29/22 Analyzed: 10/05/22

Calcium	ND	0.0500	mg/L wet
Magnesium	ND	0.0500	"
Sodium	ND	0.0500	"

LCS (BFI0769-BS1)

Prepared: 09/29/22 Analyzed: 10/05/22

Calcium	6.44	0.0500	mg/L wet	5.00	129	70-130
Magnesium	5.63	0.0500	"	5.00	113	70-130
Sodium	5.22	0.0500	"	5.00	104	70-130

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Ball Ranch AC15-03

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/05/22 14:39

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control

Summit Scientific

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD	
		Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

Batch BFI0762 - General Preparation

Duplicate (BFI0762-DUP1)

Source: 2209323-01

Prepared & Analyzed: 09/29/22

% Solids	88.4	%		87.8		0.626	20
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Ball Ranch AC15-03

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/05/22 14:39

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control

Summit Scientific

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD	
		Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

Batch BFI0771 - General Preparation

Blank (BFI0771-BLK1)

Prepared: 09/29/22 Analyzed: 09/30/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BFI0771-BS1)

Prepared: 09/29/22 Analyzed: 09/30/22

Specific Conductance (EC) 0.153 0.0100 mmhos/cm 0.150 102 95-105

Duplicate (BFI0771-DUP1)

Source: 2209453-01

Prepared: 09/29/22 Analyzed: 09/30/22

Specific Conductance (EC) 0.297 0.0100 mmhos/cm 0.297 0.00 20

Summit Scientific

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.



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Ball Ranch AC15-03

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/05/22 14:39

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control

Summit Scientific

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD	
		Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

Batch BFI0772 - General Preparation

LCS (BFI0772-BS1)

Prepared: 09/29/22 Analyzed: 09/30/22

pH	9.11	pH Units	9.18	99.2	95-105
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Duplicate (BFI0772-DUP1)

Source: 2209453-01

Prepared: 09/29/22 Analyzed: 09/30/22

pH	7.92	pH Units	7.92	0.00	20
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Ball Ranch AC15-03

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/05/22 14:39

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference