



January 25, 2024

Mr. Scott Yount
Tallgrass Midstream, LLC
370 Van Gordon St.
Denver, CO 80228

**RE: Remediation Closure Report
Wildhorse 16-13L Gathering Line
Spill/Release ID: 484603
COGCC Remediation Project #30336
Weld County, Colorado**

Mr. Yount,

Entrada Consulting Group, Inc. (Entrada) has prepared this report for Tallgrass Midstream, LLC (Tallgrass) to present remediation activities completed at the Wildhorse 16-13L Spill/Release location (Site) in Weld County, Colorado.

The Site is located approximately 12 miles northwest of Raymer, Colorado and is accessed by County Road 104. The center location coordinates of the Site are 40.748588° latitude and -103.990174° longitude. A general location map is provided as Figure 1.

On May 20, 2023, an estimated 40 barrels of brine water was observed to have been released from a high-pressure fiberglass flowline associated with the Wildhorse 16-13L production facility and an estimated 30 barrels was recovered. The line was shut-in to prevent the release of additional brine water and was exposed at the source area for repairs and root cause analysis. It appeared that the release was due to failure of a threaded pipe joint connection. Released fluids were confined within Site stormwater management ditches approximately 1.5 to 2 feet deep along the perimeter of the location pad. A Form 19 Spill/Release Report (Energy and Carbon Management Commission [ECMC] Document Number 403408430) was submitted on May 20, 2023. Entrada was retained by Tallgrass to conduct field screening and to collect confirmation soil samples during excavation activities associated with the separator release.

All investigation activities, field screening, and confirmation soil sampling activities discussed herein were conducted in accordance with ECMC 900 Series Rules and guidance documents. Discrete soil samples were collected and analyzed pursuant to Rule 915, following the general sample collection guidance in Rule 915.e.(2).

POTENTIAL RECEPTORS

The Site is surrounded by vacant rangeland in all directions. There are no residences or surface water within 0.25 miles of the Site. According to the Colorado Division of Water Resources (DWR) database, the nearest groundwater well (Permit Number 297715), located approximately 1.05 miles southeast of the release, reported a static water level at 135 ft-bgs at the time of completion. According to the Colorado GIS database, there were no high priority habitats mapped within 0.25 miles of this Site. There are no additional sensitive areas within a quarter mile of the site.

FIELD SCREENING AND SOIL SAMPLING ACTIVITIES

On May 30, August 1, September 19, October 26, and December 5, 2023, Entrada conducted field screening and collected soil samples related to excavation activities on Site. Field screening consisted of inspecting soil for visual and olfactory evidence of hydrocarbon impact and use of a photoionization detector (PID) calibrated with 100 parts per million (ppm) isobutylene gas.

Three waste characterization samples (SS01 @5/WC01, SS02 @3/WC02, and SS03 @3/WC03) were collected from the floor and sidewalls of the excavation to daylight the failed flowline section, and two composite stockpile samples were collected from suspected impacted soil excavated from the source area.

Based on the results of the waste characterization samples SS01 @5/WC01, SS02 @3/WC02, SS03 @3/WC03, C01 and C02, a reduced analyte request was submitted in June 2023 under Form 27 Supplemental Document # 403440302. The reduced analyte list was approved for future confirmation samples to include EC, SAR, boron, and barium.

Approximately 140 cubic yards of presumably impacted soil was transported to Pawnee Waste in Grover, Colorado for disposal. A total of 25 confirmation soil samples were collected from the sidewalls and 18 confirmation soil samples were collected from the base of the excavation to demonstrate horizontal and vertical compliance of EC, SAR, and boron. Excavation activities in western extents removed approximately one foot of presumably impacted soil from the base of the stormwater ditch. Confirmation soil samples were collected at the floor of excavation at 3 feet below ground surface (ft-bgs) due to the ditches previously being in place at 1.5 to 2 ft-bgs. Sidewall samples were not collected in this area due to the shallow depth of remedial excavation.

Seven background soil samples (BS1-1, BS2-1, BKG01@5, BKG02@3, BKG02@5, BKG03@3, and BKG03@5) were collected from five sample locations to determine background conditions of inorganics and metals in soils at the Site. Samples BS-1 and BS-2 were collected on March 30, 2021 during investigation of a previous release (ECMC Spill/Release Point ID: 479707). Background analytical results demonstrate a high degree of variability for arsenic and barium concentrations.

SOIL ANALYSIS

All soil samples were collected into 4-ounce sample jars, sealed, labeled, placed into ice-filled coolers for preservation, then submitted following chain-of-custody procedures to Summit Scientific (Summit) in Golden, Colorado, for analysis of the following parameters by the stated methods:

- Waste Characterization Samples (SS01@5/WC01, SS02@3/WC02, SS03@3/WC03, C01, and C02)
 - Benzene, toluene, ethylbenzene, total xylenes (BTEX), 1,2,4 trimethylbenzene (TMB), 1,3,5 TMB, and total petroleum hydrocarbons (TPH) as gasoline range organics (GRO) by Environmental Protection Agency (EPA) Method 8260B
 - Polycyclic aromatic hydrocarbons (PAHs) (Table 915-1 list) by EPA method 8270D SIM.
 - TPH as diesel range organics (DRO) and TPH as oil range organics (ORO) by EPA Method 8015.
 - Metals (Table 915-1 list) by EPA Method 6020B.
 - Electrical conductivity (EC) by EPA Method 120.1 Saturated Paste Extraction, sodium adsorption ratio (SAR) by Calculated Analysis, pH by Saturated Paste Extraction and boron by EPA 6020B.
- Excavation Soil Samples (SS04-SS16)
 - EC, SAR, boron, arsenic, and barium by the above stated methods
- Excavation Soil Samples (SS17-SS83)
 - EC, SAR, boron, and barium by the above stated methods
- Background Soil Samples (BKG01@5, BKG02@3, BKG02@5, BKG03@3, and BKG03@5)
 - EC, SAR, boron, and barium by the above stated methods
- Background Soil Samples (BS1-1, BS2-1)
 - EC, SAR, pH, boron, and arsenic by the above stated methods.

SOIL ANALYTICAL RESULTS

ECMC Table 915-1 Residential Soil Screening Levels (RSSLs) were used to determine soil compliance. Any Protection of Groundwater Soil Screening Levels (GWSSLs) exceedances were delineated vertically and laterally to be left in situ. A summary of analytical results for excavation confirmation soil samples is presented below:

- Excavation sidewall confirmation soil samples compliant for EC, SAR and boron:
 - SS02@3, SS31@3, SS32@3, SS34@3, SS35@3, SS37@3, SS38@3, SS40@3, SS43@3, SS56@3, SS58@3, SS59@3, SS61@3, SS62@3, SS64@3, SS66@3, SS68@3, SS69@3, SS72@3, SS74@3, SS75@3, SS77@3, SS81@3, SS82@3, SS83@3.
- Excavation floor confirmation soil samples compliant for EC, SAR and boron:
 - SS09@2, SS21@3, SS22@3, SS23@3, SS30@4, SS33@4, SS36@4, , SS57@4, SS60@4, SS63@5, SS65@5, SS67@5, SS70@5, SS73@5, SS76@5, SS78@3, SS79@3, SS80@4.

A summary of vertical and horizontal delineation results for sample locations in exceedance of Table 915-1 GWSSLs and background levels for barium:

- Barium delineation confirmation samples
 - Barium was reported above the GWSSL for confirmation soil samples SS33@4, SS34@3 and SS35@3.
 - Horizontal extent delineation provided in Barium Delineation (BD) samples BD03@3 and BD04@3
 - Vertical extent delineation provided in sample BD07@5
 - Barium was reported above the GWSSL for confirmation soil samples SS36@4, SS37@3, and SS38@3.
 - Horizontal extent delineation provided in samples BD03@3 and BD04@3
 - Vertical extent delineation provided in sample BD07@5
 - Barium was reported above the GWSSL for confirmation soil sample SS40@3.
 - Horizontal extent delineation provided in sample BD05@3 and SS64@3
 - Vertical extent delineation provided in sample SS63@5.
 - Barium was reported above the GWSSL for confirmation soil sample SS43@3.
 - Horizontal extent delineation provided in sample BD06@3 and SS66@3.
 - Vertical extent delineation provided in sample SS65@5
 - Barium was reported above the GWSSL for confirmation soil sample SS69@3.
 - Horizontal extent delineation provided in sample BD06@3 and SS68@3.

- Vertical extent delineation provided in sample SS67@5.

Soil sample location data and field screening results are included in Table 1. Analytical results for all collected soil samples are summarized in Table 2, Table 3, and Table 4. Final excavation extents and compliant confirmation soil sample locations are displayed on Figure 2. A photographic log is provided as Appendix A, and laboratory analytical reports are provided as Appendix B.

SUMMARY AND RECOMMENDATIONS

Impacted soil was identified at the Wildhorse 16-13L production facility associated with the release of brine water from the high-pressure fiberglass flowline. Excavation was conducted and impacted soil was removed and transported offsite for disposal at Pawnee Waste in Grover, Colorado. All confirmation sidewall and floor samples displayed on Figure 2 are compliant with RSSLs for the approved reduced analyte list of EC, SAR, and boron. Barium results above GWSSL and background levels reported in compliant confirmation soil samples have been fully delineated in the horizontal and vertical extents.

Based on the data presented above, Entrada recommends Tallgrass respectfully request a determination of No Further Action for Remediation Project Number 25738.

ENTRADA CONSULTING GROUP



Ryan Finley
Senior Project Geologist
Entrada Consulting Group, Inc.

Attachments:

Figure 1 – General Site Location Map

Figure 2 – Soil Sample Location Map

Table 1 – Soil Sample and Laboratory Report Information

Table 2 – Soil Analytical Results Summary Table - Organics

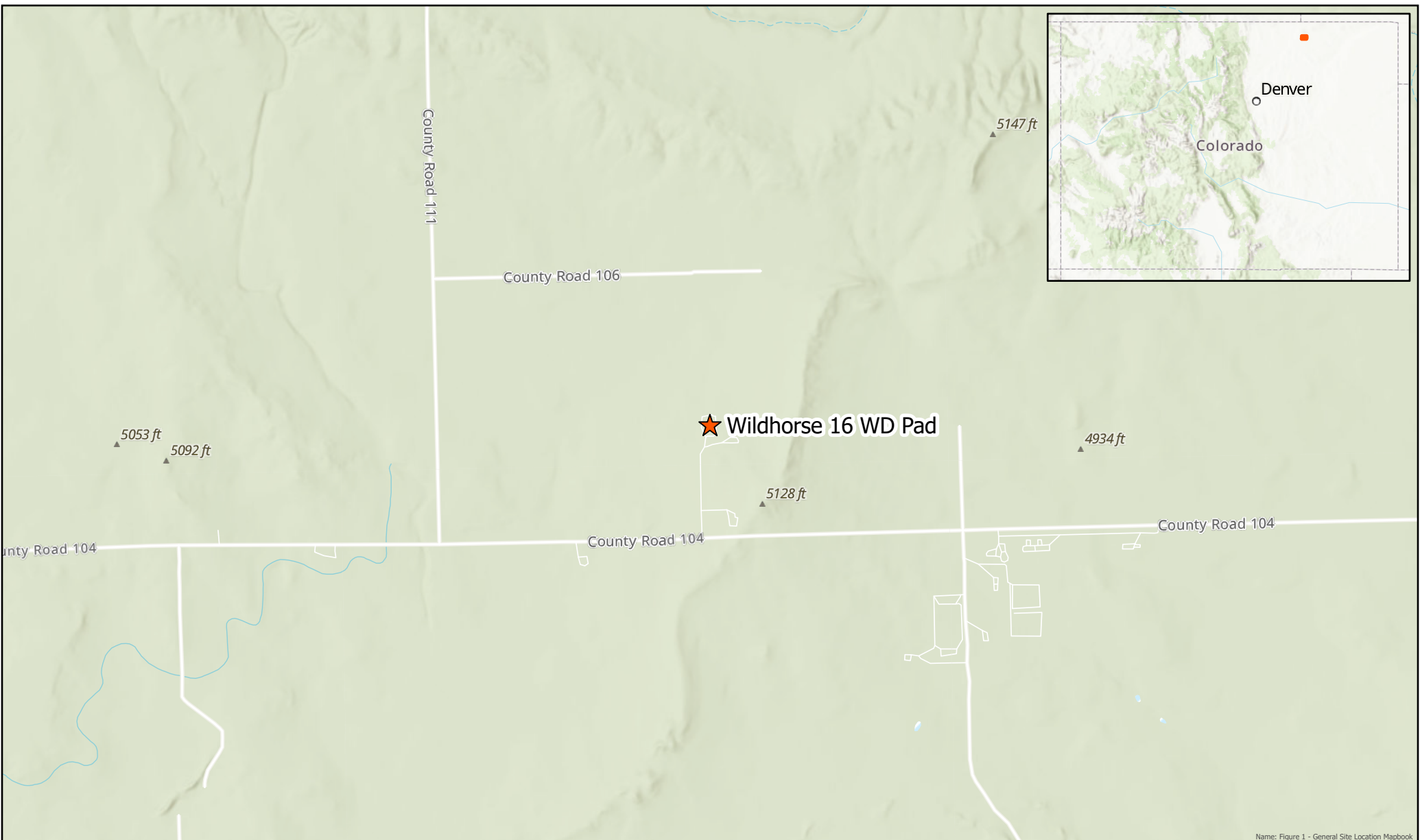
Table 3 – Soil Analytical Results Summary Table - PAHs

Table 4 – Soil Analytical Results Summary Table - Inorganics

Attachment A: Photolog

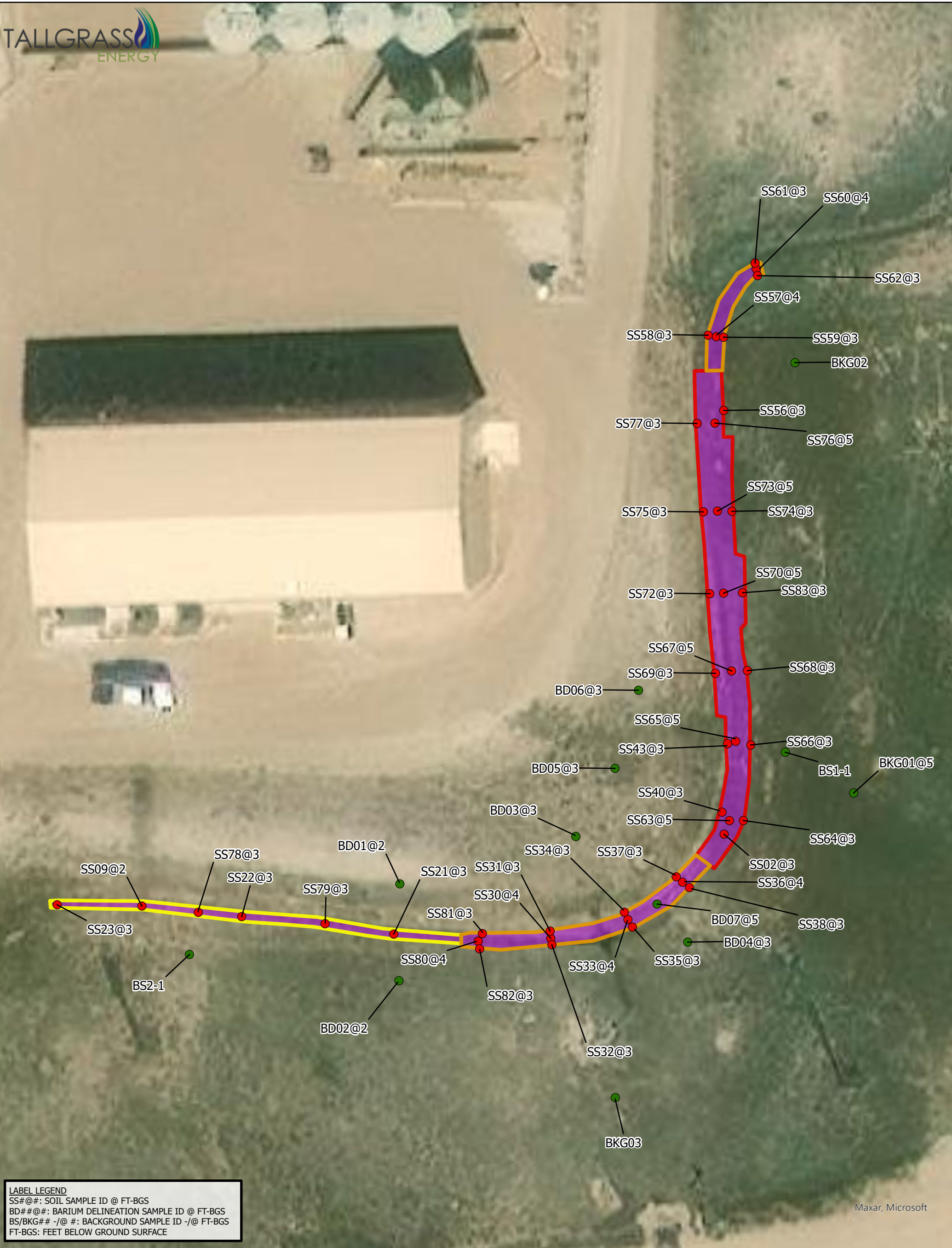
Attachment B: Laboratory Analytical Reports

FIGURES



Name: Figure 1 - General Site Location Mapbook

<div><div>LEGEND</div><div><div><div>★</div><div>Site Location</div></div></div></div> <div><div><div><div>0</div><div>0.5</div><div>1</div></div><div>Miles</div></div><div>1 inch = 1 Mile</div></div> <div><div><div>N</div><div>E</div><div>S</div><div>W</div></div></div>				<div>GENERAL SITE LOCATION MAP</div> <div>WILDHORSE 16 WD PAD</div> <div>TALLGRASS ENERGY PARTNERS</div> <div>NW 1/4 SW 1/4 SECTION 16</div> <div>T9N R59W, 6TH PM</div> <div>WELD COUNTY, COLORADO</div>		<div><div><div><div></div><div>ENTRADA</div><div>CONSULTING GROUP</div></div></div><div><div>1843 Sunlight Dr.</div><div>Longmont, CO 80504</div><div>303.378.4036</div></div></div>		<div>Figure</div> <div>1</div>	
<div>Project No: 023-051</div>									
<div>Map By: JW</div>									
<div>Date: 06/13/2023</div>									



LABEL LEGEND
SS#@#: SOIL SAMPLE ID @ FT-BGS
BD##@#: BARIUM DELINEATION SAMPLE ID @ FT-BGS
BS/BKG## -/@ #: BACKGROUND SAMPLE ID -/@ FT-BGS
FT-BGS: FEET BELOW GROUND SURFACE

● Soil Sample - Compliant

● Soil Sample - Background

Excavation Extent - 3 ft-bgs


Excavation Extent - 4 ft-bgs

Excavation Extent - 5 ft-bgs

02550

Feet

N
W
E
S

Project No: 023-051	COMPLIANCE SOIL SAMPLE LOCATIONS MAP WILDHORSE 16-13L TALLGRASS ENERGY PARTNERS NW 1/4 SW 1/4 SECTION 16 T9N R59W, 6TH PM WELD COUNTY, COLORADO	 <div>1843 Sunlight Drive Longmont, CO 80504 303.378.4036</div>	Figure
Map By: JW			2
Date: 01/25/2024			

TABLES

TABLE 1
Soil Sample and Field Screening Information
Wildhorse 16-13L, Weld County, CO

Sample Information					
Sample ID	Depth	Sample Date	PID Field Screening	Latitude	Longitude
Units -->	ft-bgs	mm/dd/yyyy	ppm	Decimal Degree (NAD83)	
SS01@5/WC01	5	5/30/2023	3.4	40.748767	-103.991205
SS02@3/WC02	3	5/30/2023	2.2	40.748761	-103.991210
SS03@3/WC03	3	5/30/2023	1.7	40.748776	-103.991205
SS04@2	2	5/30/2023	1.5	40.748739	-103.991246
SS05@2	2	5/30/2023	0.8	40.748688	-103.991333
SS06@2	2	5/30/2023	0.5	40.748682	-103.991436
SS07@2	2	5/30/2023	0.3	40.748690	-103.991564
SS08@2	2	5/30/2023	0.0	40.748702	-103.991697
SS09@2	2	5/30/2023	0.3	40.748714	-103.991816
SS10@1.5	1.5	5/30/2023	0.7	40.748717	-103.991924
SS11@2	2	5/30/2023	2.5	40.748808	-103.991204
SS12@2	2	5/30/2023	1.6	40.748886	-103.991205
SS13@2	2	5/30/2023	0.5	40.748968	-103.991213
SS14@2	2	5/30/2023	0.7	40.749046	-103.991223
SS15@2	2	5/30/2023	0.5	40.749144	-103.991213
SS16@1.5	1.5	5/30/2023	1.5	40.749200	-103.991163
C01	N/A	5/30/2023	NM	N/A	N/A
C02	N/A	5/30/2023	NM	N/A	N/A
SS17@3	3	8/1/2023	1.9	40.748783	-103.991204
SS18@3	3	8/1/2023	2.7	40.748729	-103.991251
SS19@3	3	8/1/2023	1.3	40.748694	-103.991322
SS20@3	3	8/1/2023	1.7	40.748682	-103.991428
SS21@3	3	8/1/2023	0.7	40.748689	-103.991552
SS22@3	3	8/1/2023	2.1	40.748704	-103.991707
SS23@3	3	8/1/2023	1.4	40.748716	-103.991895
SS24@3	3	8/1/2023	3.1	40.748822	-103.991199
SS25@3	3	8/1/2023	1.4	40.748884	-103.991202
SS26@3	3	8/1/2023	2.2	40.748961	-103.991210
SS27@3	3	8/1/2023	2.3	40.749043	-103.991217
SS28@3	3	8/1/2023	1.6	40.749143	-103.991214
SS29@3	3	8/1/2023	1.2	40.749199	-103.991175
SS30@4	4	9/19/2023	3.1	40.748683	-103.991392
SS31@3	3	9/19/2023	1.7	40.748689	-103.991392
SS32@3	3	9/19/2023	4.2	40.748678	-103.991391
SS33@4	4	9/19/2023	1.9	40.748697	-103.991312
SS34@3	3	9/19/2023	1.7	40.748703	-103.991316
SS35@3	3	9/19/2023	2.2	40.748691	-103.991308
SS36@4	4	9/19/2023	1.0	40.748725	-103.991256

TABLE 1
Soil Sample and Field Screening Information
Wildhorse 16-13L, Weld County, CO

Sample Information					
Sample ID	Depth	Sample Date	PID Field Screening	Latitude	Longitude
Units -->	ft-bgs	mm/dd/yyyy	ppm	Decimal Degree (NAD83)	
SS37@3	3	9/19/2023	2.1	40.748729	-103.991262
SS38@3	3	9/19/2023	1.9	40.748721	-103.991249
SS39@4	4	9/19/2023	3.2	40.748779	-103.991205
SS40@3	3	9/19/2023	1.7	40.748779	-103.991215
SS41@3	3	9/19/2023	1.0	40.748777	-103.991197
SS42@4	4	9/19/2023	0.8	40.748829	-103.991199
SS43@3	3	9/19/2023	2.0	40.748832	-103.991208
SS44@3	3	9/19/2023	1.9	40.748827	-103.991191
SS45@4	4	9/19/2023	3.4	40.748880	-103.991202
SS46@3	3	9/19/2023	2.9	40.748880	-103.991210
SS47@3	3	9/19/2023	2.1	40.748880	-103.991193
SS48@4	4	9/19/2023	1.6	40.748958	-103.991210
SS49@3	3	9/19/2023	1.7	40.748958	-103.991218
SS50@3	3	9/19/2023	1.7	40.748958	-103.991202
SS51@4	4	9/19/2023	2.3	40.749029	-103.991215
SS52@3	3	9/19/2023	1.9	40.749029	-103.991224
SS53@3	3	9/19/2023	0.5	40.749028	-103.991205
SS54@4	4	9/19/2023	0.0	40.749091	-103.991215
SS55@3	3	9/19/2023	1.3	40.749092	-103.991224
SS56@3	3	9/19/2023	1.9	40.749091	-103.991206
SS57@4	4	9/19/2023	2.1	40.749148	-103.991212
SS58@3	3	9/19/2023	1.4	40.749150	-103.991220
SS59@3	3	9/19/2023	0.7	40.749148	-103.991205
SS60@4	4	9/19/2023	2.3	40.749201	-103.991170
SS61@3	3	9/19/2023	2.4	40.749205	-103.991171
SS62@3	3	9/19/2023	0.9	40.749195	-103.991169
SS63@5	5	10/26/2023	3.7	40.748772	-103.991207
SS64@3	3	10/26/2023	3.2	40.748772	-103.991193
SS65@5	5	10/26/2023	2.7	40.748834	-103.991199
SS66@3	3	10/26/2023	2.3	40.748831	-103.991184
SS67@5	5	10/26/2023	1.9	40.748889	-103.991202
SS68@3	3	10/26/2023	2.4	40.748889	-103.991186
SS69@3	3	10/26/2023	2.8	40.748887	-103.991219
SS70@5	5	10/26/2023	2.1	40.748949	-103.991209
SS71@3	3	10/26/2023	1.9	40.748949	-103.991193
SS72@3	3	10/26/2023	1.7	40.748949	-103.991223
SS73@5	5	10/26/2023	2.2	40.749013	-103.991214
SS74@3	3	10/26/2023	2.7	40.749013	-103.991199

TABLE 1
Soil Sample and Field Screening Information
Wildhorse 16-13L, Weld County, CO

Sample Information					
Sample ID	Depth	Sample Date	PID Field Screening	Latitude	Longitude
Units -->	ft-bgs	mm/dd/yyyy	ppm	Decimal Degree (NAD83)	
SS75@3	3	10/26/2023	2.0	40.749013	-103.991228
SS76@5	5	10/26/2023	2.1	40.749081	-103.991215
SS77@3	3	10/26/2023	3.1	40.749081	-103.991233
SS78@3	3	12/5/2023	NM	40.748708	-103.991751
SS79@3	3	12/5/2023	NM	40.748698	-103.991622
SS80@4	4	12/5/2023	NM	40.748682	-103.991466
SS81@3	3	12/5/2023	NM	40.748688	-103.991461
SS82@3	3	12/5/2023	NM	40.748676	-103.991464
SS83@3	3	12/5/2023	NM	40.748972	-103.991251
BD01@2	2	12/5/2023	NM	40.748728	-103.991545
BD02@2	2	12/5/2023	NM	40.748652	-103.991547
BD03@3	3	12/5/2023	NM	40.748762	-103.991364
BD04@3	3	12/5/2023	NM	40.748679	-103.991252
BD05@3	3	12/5/2023	NM	40.748814	-103.991323
BD06@3	3	12/5/2023	NM	40.748875	-103.991298
BD07@5	5	12/5/2023	NM	40.748708	-103.991282
BKG01@5	5	5/30/2023	NM	40.748792	-103.991080
BS1-1	0.5	3/30/2021	NM	40.748825	-103.991149
BS2-1	0.5	3/30/2021	NM	40.748675	-103.991761
BKG02@3	3	8/2/2023	NM	40.749127	-103.991132
BKG02@5	5	8/2/2023	NM	40.749127	-103.991132
BKG03@3	3	8/2/2023	NM	40.748559	-103.991328
BKG03@5	5	8/2/2023	NM	40.748559	-103.991328

Notes:

ft-bgs - feet below ground surface
 PID - Photo-ionization detector
 ppm - parts per million
 NM - not measured
 N/A - not applicable

SS - Soil Sample
 WC - Waste Characterization Sample
 C- Composite Sample
 BD - Barium Delineation Sample
 BKG - Background Sample
 BS - Background Sample

TABLE 2
Soil Analytical Results Summary Table - Organics
Wildhorse 16-13L, Weld County, CO

Sample Information			BTEXN + TMBs							TPH			
Sample ID	Depth	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Naphthalene	1,2,4-TMB	1,3,5-TMB	GRO	DRO	ORO	TPH
Units -->	ft-bgs	mm/dd/yyyy	mg/kg							mg/kg			
ECMC RSSL -->			1.2	490	5.8	58	2	30	27	500	500	500	500
ECMC GWSSL -->			0.0026	0.69	0.78	9.9	0.0038	0.0081	0.0087	500	500	500	500
SS01@5/WC01	5	5/30/2023	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.50
SS02@3/WC02	3	5/30/2023	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.50
SS03@3/WC03	3	5/30/2023	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.50
C01	-	5/30/2023	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.50
C02	-	5/30/2023	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.0050	<0.0050	<0.50	<50	<50	<100.50

Notes:

GRO - Gasoline Range Organics
DRO - Diesel Range Organics
ORO - Oil Range Organics
TPH - Total Petroleum Hydrocarbons
TMB - Trimethylbenzene
ft-bgs - feet below ground surface
mg/kg - milligrams per kilogram

ECMC - Colorado Energy and Carbon Management Commission
BTEXN - Benzene, Toluene, Ethylbenzene, Xylenes, Naphthalene
RSSL - Residential Soil Screening Level
GWSSL - Groundwater Soil Screening Level
< - indicates result is below the laboratory reporting limit
SS - Soil Sample
WC - Waste Characterization Sample

C- Composite Sample
Waste Characterization Sample
Removed by Excavation
not analyzed
Red- Above ECMC Table 915-1 GWSSL
Green- Background Levels Above ECMC Table 915-1

TABLE 3
Soil Analytical Results Summary Table - PAHs
Wildhorse 16-13L, Weld County, CO

Sample Information			PAHs													
Sample ID	Depth	Sample Date	Acenaphthene	Anthracene	Benz(a)-anthracene	Benzo(b)-fluoranthene	Benzo(k)-fluoranthene	Benzo(a)pyrene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	1-methylnaphthalene	2-methylnaphthalene	Pyrene
Units -->	ft-bgs	mm/dd/yyyy	mg/kg													
ECMC RSSL -->			360	1800	1.1	1.1	11	0.11	110	0.11	240	240	1.1	18	24	180
ECMC GWSSL -->			0.55	5.8	0.011	0.3	2.9	0.24	9	0.096	8.9	0.54	0.98	0.006	0.019	1.3
SS01@5/WC01	5	5/30/2023	<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
SS02@3/WC02	3	5/30/2023	<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
SS03@3/WC03	3	5/30/2023	<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
C01	-	5/30/2023	<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
C02	-	5/30/2023	<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

Notes:

PAHs - Polycyclic aromatic hydrocarbons

ft-bgs - feet below ground surface

mg/kg - milligrams per kilogram

ECMC - Colorado Energy and Carbon Management Commission

RSSL - Residential Soil Screening Level

GWSSL - Groundwater Soil Screening Level

< - indicates result is below the laboratory reporting limit

Waste Characterization Sample

Removed by Excavation

SS - Soil Sample

WC - Waste Characterization Sample

C- Composite Sample

TABLE 4
Soil Analytical Results Summary Table - Inorganics
Wildhorse 16-13L, Weld County, CO

Sample Information			Soil Suitability for Reclamation				Metals in Soils									
Sample ID	Depth	Sample Date	EC	SAR	pH	Boron	Arsenic	Barium	Cadmium	Chromium (VI)	Copper	Lead	Nickel	Selenium	Silver	Zinc
Units -->	ft-bgs	mm/dd/yyyy	mmhos/cm	Unitless	Unitless	mg/l	mg/kg									
ECMC RSSL -->			<4	<6	6.0 - 8.3	2	0.68	15000	71	0.3	3100	400	1500	390	390	23000
ECMC GWSSL -->			<4	<6	6.0 - 8.3	2	0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
Background Level-->			N/A				2.71	316	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SS01@5/WC01	5	5/30/2023	2.22	2.65	7.80	1.11	0.709	374	<0.244	<0.30	1.44	8.20	1.24	<0.318	<0.0244	5.38
SS02@3/WC02	3	5/30/2023	3.26	1.54	7.65	0.617	0.614	280	<0.219	<0.30	1.19	7.43	1.02	<0.285	<0.0219	4.48
SS03@3/WC03	3	5/30/2023	5.30	2.25	7.58	0.387	0.682	260	<0.251	<0.30	1.23	7.49	1.17	<0.327	<0.0251	5.05
C01	-	5/30/2023	6.76	26.0	7.65	1.21	0.697	292	<0.248	<0.30	1.67	9.13	1.41	<0.323	<0.0248	5.91
C02	-	5/30/2023	6.41	32.2	7.70	1.08	0.763	333	<0.274	<0.30	1.92	9.66	1.63	<0.356	<0.0274	7.13
SS04@2	2	5/30/2023	1.10	2.56		2.16	0.730	286								
SS05@2	2	5/30/2023	7.16	11.4		0.541	0.772	425								
SS06@2	2	5/30/2023	5.50	3.68		0.369	0.802	315								
SS07@2	2	5/30/2023	3.14	7.06		0.613	0.846	232								
SS08@2	2	5/30/2023	6.81	5.77		0.718	1.09	229								
SS09@2	2	5/30/2023	1.98	2.28		0.320	0.852	190								
SS10@1.5	1.5	5/30/2023	8.82	10.8		0.421	0.977	217								
SS11@2	2	5/30/2023	7.62	54.6		3.13	0.673	233								
SS12@2	2	5/30/2023	4.22	26.0		4.05	0.725	314								
SS13@2	2	5/30/2023	7.14	70.4		3.63	0.735	254								
SS14@2	2	5/30/2023	6.21	37.1		2.65	0.836	325								
SS15@2	2	5/30/2023	7.63	42.0		2.82	0.871	343								
SS16@1.5	1.5	5/30/2023	9.42	52.2		8.02	0.822	290								
SS17@3	3	8/1/2023	7.50	56.5		5.91		373								
SS18@3	3	8/1/2023	14.2	23.4		1.75		434								
SS19@3	3	8/1/2023	1.62	3.21		0.838		338								
SS20@3	3	8/1/2023	5.36	3.91		0.701		249								
SS21@3	3	8/1/2023	3.02	2.66		0.473		269								
SS22@3	3	8/1/2023	0.589	1.03		0.209		214								
SS23@3	3	8/1/2023	0.692	2.31		1.05		224								
SS24@3	3	8/1/2023	7.50	59.2		5.45		398								
SS25@3	3	8/1/2023	3.85	27.2		4.36		247								
SS26@3	3	8/1/2023	5.18	43.9		4.22		740								
SS27@3	3	8/1/2023	7.16	8.02		1.07		329								
SS28@3	3	8/1/2023	5.56	25.3		1.91		194								
SS29@3	3	8/1/2023	2.13	7.02		0.419		253								

TABLE 4
Soil Analytical Results Summary Table - Inorganics
Wildhorse 16-13L, Weld County, CO

Sample Information			Soil Suitability for Reclamation				Metals in Soils									
Sample ID	Depth	Sample Date	EC	SAR	pH	Boron	Arsenic	Barium	Cadmium	Chromium (VI)	Copper	Lead	Nickel	Selenium	Silver	Zinc
Units -->	ft-bgs	mm/dd/yyyy	mmhos/cm	Unitless	Unitless	mg/l	mg/kg									
ECMC RSSL -->			<4	<6	6.0 - 8.3	2	0.68	15000	71	0.3	3100	400	1500	390	390	23000
ECMC GWSSL -->			<4	<6	6.0 - 8.3	2	0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
Background Level-->			N/A				2.71	316	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SS30@4	4	9/19/2023	0.299	0.158		0.123		235								
SS31@3	3	9/19/2023	0.276	0.147		0.113		167								
SS32@3	3	9/19/2023	0.305	0.220		0.158		185								
SS33@4	4	9/19/2023	0.279	0.887		0.445		470								
SS34@3	3	9/19/2023	1.04	0.956		0.194		342								
SS35@3	3	9/19/2023	0.349	0.488		0.222		342								
SS36@4	4	9/19/2023	0.300	0.563		0.274		349								
SS37@3	3	9/19/2023	0.359	0.698		0.0905		385								
SS38@3	3	9/19/2023	0.218	0.230		0.122		370								
SS39@4	4	9/19/2023	4.01	6.36		0.628		337								
SS40@3	3	9/19/2023	1.98	0.757		0.0270		430								
SS41@3	3	9/19/2023	3.46	13.2		0.730		518								
SS42@4	4	9/19/2023	4.37	28.0		2.39		424								
SS43@3	3	9/19/2023	3.15	3.74		0.171		401								
SS44@3	3	9/19/2023	5.63	73.0		5.99		313								
SS45@4	4	9/19/2023	3.55	15.1		1.61		316								
SS46@3	3	9/19/2023	3.95	26.5		4.92		337								
SS47@3	3	9/19/2023	3.93	25.0		1.89		426								
SS48@4	4	9/19/2023	3.74	17.3		1.86		290								
SS49@3	3	9/19/2023	4.41	31.5		1.96		551								
SS50@3	3	9/19/2023	4.31	24.1		1.29		291								
SS51@4	4	9/19/2023	3.25	2.72		0.469		341								
SS52@3	3	9/19/2023	2.34	12.6		0.932		434								
SS53@3	3	9/19/2023	3.87	14.5		1.30		325								
SS54@4	4	9/19/2023	3.83	14.4		1.51		385								
SS55@3	3	9/19/2023	1.95	8.89		1.23		358								
SS56@3	3	9/19/2023	0.208	0.170		0.361		190								
SS57@4	4	9/19/2023	0.176	0.158		0.199		270								
SS58@3	3	9/19/2023	0.239	0.0852		0.0871		242								
SS59@3	3	9/19/2023	0.191	0.0864		0.0390		238								
SS60@4	4	9/19/2023	0.149	0.0664		0.0757		260								

TABLE 4
Soil Analytical Results Summary Table - Inorganics
Wildhorse 16-13L, Weld County, CO

Sample Information			Soil Suitability for Reclamation				Metals in Soils									
Sample ID	Depth	Sample Date	EC	SAR	pH	Boron	Arsenic	Barium	Cadmium	Chromium (VI)	Copper	Lead	Nickel	Selenium	Silver	Zinc
Units -->	ft-bgs	mm/dd/yyyy	mmhos/cm	Unitless	Unitless	mg/l	mg/kg									
ECMC RSSL -->			<4	<6	6.0 - 8.3	2	0.68	15000	71	0.3	3100	400	1500	390	390	23000
ECMC GWSSL -->			<4	<6	6.0 - 8.3	2	0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
Background Level-->			N/A				2.71	316	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SS61@3	3	9/19/2023	0.216	0.0979		0.175		285								
SS62@3	3	9/19/2023	0.272	0.104		0.0854		252								
SS63@5	5	10/26/2023	0.267	0.0990		<2.00		153								
SS64@3	3	10/26/2023	0.321	0.188		<2.00		144								
SS65@5	5	10/26/2023	3.96	2.82		<2.00		186								
SS66@3	3	10/26/2023	2.48	0.512		<2.00		222								
SS67@5	5	10/26/2023	3.87	3.35		<2.00		237								
SS68@3	3	10/26/2023	2.79	1.22		<2.00		270								
SS69@3	3	10/26/2023	3.35	1.02		<2.00		395								
SS70@5	5	10/26/2023	3.82	2.53		<2.00		246								
SS71@3	3	10/26/2023	4.59	4.33		<2.00		298								
SS72@3	3	10/26/2023	3.77	0.975		<2.00		259								
SS73@5	5	10/26/2023	1.31	1.40		<2.00		172								
SS74@3	3	10/26/2023	2.98	2.04		<2.00		247								
SS75@3	3	10/26/2023	3.01	1.53		<2.00		245								
SS76@5	5	10/26/2023	1.24	1.55		<2.00		257								
SS77@3	3	10/26/2023	2.95	0.783		<2.00		294								
SS78@3	3	12/5/2023	0.159	0.314		<2.00		272								
SS79@3	3	12/5/2023	0.172	0.320		<2.00		230								
SS80@4	4	12/5/2023	0.154	0.286		<2.00		287								
SS81@3	3	12/5/2023	0.182	0.277		<2.00		310								
SS82@3	3	12/5/2023	0.178	0.278		<2.00		210								
SS83@3	3	12/5/2023	0.136	0.282		<2.00		168								
BD01@2	2	12/5/2023						260								
BD02@2	2	12/5/2023						224								
BD03@3	3	12/5/2023						241								
BD04@3	3	12/5/2023						242								
BD05@3	3	12/5/2023						262								
BD06@3	3	12/5/2023						267								
BD07@5	5	12/5/2023						288								
BKG01@5	5	5/30/2023	1.69	2.05	7.81	0.299	0.454	124						<0.260		

TABLE 4
Soil Analytical Results Summary Table - Inorganics
Wildhorse 16-13L, Weld County, CO

Sample Information			Soil Suitability for Reclamation				Metals in Soils									
Sample ID	Depth	Sample Date	EC	SAR	pH	Boron	Arsenic	Barium	Cadmium	Chromium (VI)	Copper	Lead	Nickel	Selenium	Silver	Zinc
Units -->	ft-bgs	mm/dd/yyyy	mmhos/cm	Unitless	Unitless	mg/l	mg/kg									
ECMC RSSL -->			<4	<6	6.0 - 8.3	2	0.68	15000	71	0.3	3100	400	1500	390	390	23000
ECMC GWSSL -->			<4	<6	6.0 - 8.3	2	0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
Background Level-->			N/A				2.71	316	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BS1-1	0.5	3/30/2021	0.510	0.607	8.49	0.0916	2.43									
BS2-1	0.5	3/30/2021	0.469	0.349	8.30	0.224	3.61									
BKG02@3	3	8/2/2023	0.374	0.496		0.235		176								
BKG02@5	5	8/2/2023	0.376	0.617		0.312		377								
BKG03@3	3	8/2/2023	0.395	0.331		0.282		280								
BKG03@5	5	8/2/2023	0.989	2.86		0.270		307								

Notes:

EC - Electrical Conductivity

SAR - Sodium adsorption ratio

ft-bgs - feet below ground surface

mmhos/cm - millimhos per centimeter

mg/l - milligrams per liter

mg/kg - milligrams per kilogram

N/A - Not Applicable

ECMC - Colorado Energy and Carbon Management Commission

RSSL - Residential Soil Screening Level

GWSSL - Groundwater Soil Screening Level

< - indicates result is below the laboratory reporting limit

SS - Soil Sample

WC - Waste Characterization Sample

C- Composite Sample

BD - Barium Delineation Sample

BS - Background Sample

BKG - Background Sample

Waste Characterization Sample

Removed by Excavation

not analyzed

Red- Above ECMC Table 915-1 RSSL

Blue- Above ECMC Table 915-1 GWSSL and Background Levels

Green- Above ECMC Table 915-1 GWSSL, representative of background levels

ATTACHMENT A
PHOTOGRAPHIC LOG

Wildhorse 16-13L Photographic Log



Wildhorse 16-13L Photographic Log



Wildhorse 16-13L Photographic Log



Wildhorse 16-13L Photographic Log



Wildhorse 16-13L Photographic Log



Wildhorse 16-13L Photographic Log



Wildhorse 16-13L Photographic Log



Wildhorse 16-13L Photographic Log



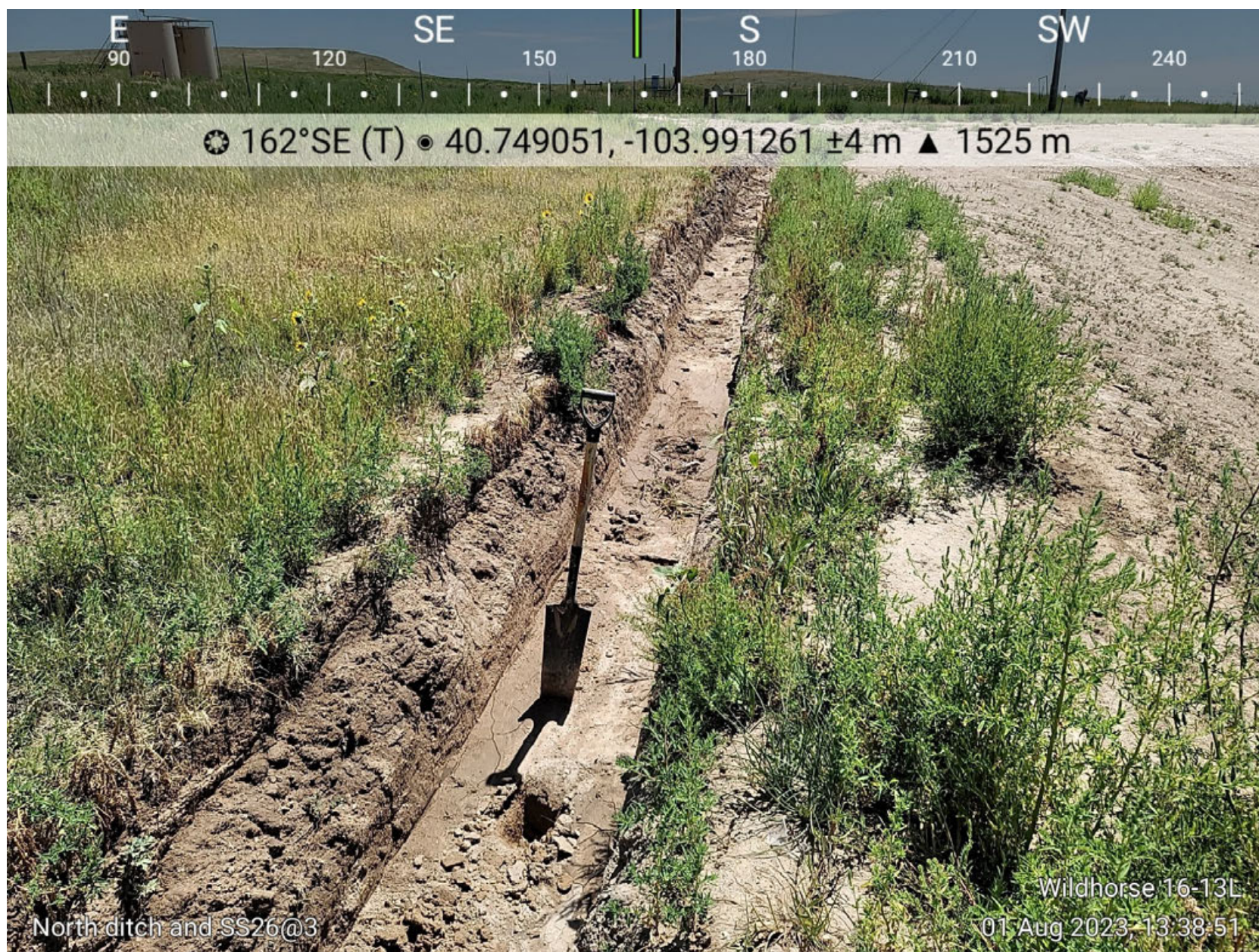
Wildhorse 16-13L Photographic Log



Wildhorse 16-13L Photographic Log



Wildhorse 16-13L Photographic Log



Wildhorse 16-13L Photographic Log



Wildhorse 16-13L Photographic Log



Wildhorse 16-13L Photographic Log



Wildhorse 16-13L Photographic Log



Wildhorse 16-13L Photographic Log



Wildhorse 16-13L Photographic Log



Wildhorse 16-13L Photographic Log



Wildhorse 16-13L Photographic Log



Wildhorse 16-13L Photographic Log



Wildhorse 16-13L Photographic Log



Wildhorse 16-13L Photographic Log



Wildhorse 16-13L Photographic Log



Wildhorse 16-13L Photographic Log



Wildhorse 16-13L Photographic Log



Wildhorse 16-13L Photographic Log



Wildhorse 16-13L Photographic Log



Wildhorse 16-13L Photographic Log



Wildhorse 16-13L Photographic Log



Wildhorse 16-13L Photographic Log



Wildhorse 16-13L Photographic Log



Wildhorse 16-13L Photographic Log



Wildhorse 16-13L Photographic Log



Wildhorse 16-13L Photographic Log



Wildhorse 16-13L Photographic Log



ATTACHMENT B
LABORATORY ANALYTICAL RESULTS

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

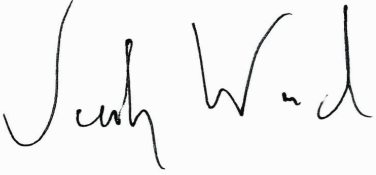
303.277.9310

January 22, 2024

Ryan Finley
Entrada Consulting Group
240 Mesa Avenue
Grand Junction., CO 81501
RE: Wildhorse 16-13L
Work Order #2305670

Enclosed are the results of analyses for samples received by Summit Scientific on 05/30/23 15:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Jacob Wood". The signature is written in a cursive, flowing style.

Jacob Wood For Paul Shrewsbury
President



Entrada Consulting Group
240 Mesa Avenue
Grand Junction. CO, 81501

Project: Wildhorse 16-13L

Project Number: [none]
Project Manager: Ryan Finley

Reported:
01/22/24 16:47

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01@5/WC01	2305670-01	Soil	05/30/23 11:30	05/30/23 15:45
SS02@3/WC02	2305670-02	Soil	05/30/23 11:32	05/30/23 15:45
SS03@3/WC03	2305670-03	Soil	05/30/23 11:34	05/30/23 15:45
SS04@2	2305670-04	Soil	05/30/23 11:40	05/30/23 15:45
SS05@2	2305670-05	Soil	05/30/23 11:45	05/30/23 15:45
SS06@2	2305670-06	Soil	05/30/23 11:50	05/30/23 15:45
SS07@2	2305670-07	Soil	05/30/23 11:55	05/30/23 15:45
SS08@2	2305670-08	Soil	05/30/23 12:00	05/30/23 15:45
SS09@2	2305670-09	Soil	05/30/23 12:05	05/30/23 15:45
SS10@1.5	2305670-10	Soil	05/30/23 12:10	05/30/23 15:45
SS11@2	2305670-11	Soil	05/30/23 12:20	05/30/23 15:45
SS12@2	2305670-12	Soil	05/30/23 12:25	05/30/23 15:45
SS13@2	2305670-13	Soil	05/30/23 12:30	05/30/23 15:45
SS14@2	2305670-14	Soil	05/30/23 12:35	05/30/23 15:45
SS15@2	2305670-15	Soil	05/30/23 12:40	05/30/23 15:45
SS16@1.5	2305670-16	Soil	05/30/23 12:45	05/30/23 15:45
BKG01@5	2305670-17	Soil	05/30/23 13:15	05/30/23 15:45
C01	2305670-18	Soil	05/30/23 13:20	05/30/23 15:45
C02	2305670-19	Soil	05/30/23 13:25	05/30/23 15:45

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

4653 Table Mountain Drive
Golden, CO 80403
303-277-9310

Lab ID	Page 1 of 2
2305670-1	

Client: <u>Entrada Consulting</u>		Send Data To:		Send Invoice To:	
Address: <u>ON File</u>		Project Manager: <u>Ryan Finley</u>		Company: <u>Entrada</u>	
City/State/Zip:		E-Mail: <u>rfinley@entrada.com</u>		Project Name/Location: <u>wildhorse</u>	
Phone: <u>313-907-0635</u>		Project Name: <u>wildhorse 16-13L</u>		AFE#:	
Sampler Name: <u>Ryan Finley</u>		Project Number:		PO/Billing Codes:	
				Contact:	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested				Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	Full Table 915	pH, EC, SAR, Boron	Selenium	Arsenic		Barium
1	SS01@5/WC01	5/30/23	1130	2			X			X				X				
2	SS02@3/WC02		1132	1										X				
3	SS03@3/WC03		1134	1										X				
4	SS04@2		1140	1											X	X		Hold remainder
5	SS05@2		1145	1														
6	SS06@2		1150	1														
7	SS07@2		1155	1														
8	SS08@2		1200	1														
9	SS09@2		1205	1														
10	SS10@1.5		1210	1														
11	SS11@2		1220	1														
12	SS12@2		1225	1														
13	SS13@2		1230	1														
14	SS14@2		1235	1														
15	SS15@2		1240	1														

Relinquished by: <u>[Signature]</u>	Date/Time: <u>5/30/23 1545</u>	Received by: <u>[Signature]</u>	Date/Time: <u>5/30/23 1545</u>	TAT Business Days	Field DO	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Standard	X Field Turb.	
Temperature Upon Receipt: <u>12.0</u>		Corrected Temperature: <u>6</u>		IR gun #: <u>1</u>	HNO3 lot #:	

Client: <u>Entrada</u>		Send Data To:		Send Invoice To:	
Address: <u>ON File</u>		Project Manager: <u>P. Finley</u>		Company: <u>Entrada</u>	
City/State/Zip: <u>ON File</u>		E-Mail: <u>rfinley@entradainc.com</u>		Project Name/Location:	
Phone:		Project Name: <u>wildhorse 16-13L</u>		AFE#:	
Sampler Name: <u>P. Finley</u>		Project Number:		PO/Billing Codes:	
				Contact:	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Air-Canister #	Other	Analysis Requested					Special Instructions
					HCl	HNO3	None	Other	Water	Soil			pH, EC, SAR	Boron	Arsenic	Barium	Selenium	
1	SS16@1.5	5/30/23	1245	2			X			X			X	X	X	X	X	
2	BKG01@5	↓	1315	1			↓			↓			↓	↓	↓	↓	↓	Ziplock bag
3	BKG02@2	↓	1320	1			↓			↓			↓	↓	↓	↓	↓	↓
4	BKG03@2*	↓	1325	1			↓			↓			↓	↓	↓	↓	↓	↓
5																		* per sample jar.
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		

Relinquished by: <u>[Signature]</u>	Date/Time: <u>5/30/23 15:45</u>	Received by: <u>[Signature]</u>	Date/Time: <u>5/30/23 1600</u>	TAT Business Days	Field DO	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Standard	X Field Turb.	
Temperature Upon Receipt: <u>12.0</u>	Corrected Temperature: <u>12.0</u>	IR gun #: <u>1</u>	HNO3 lot #:			

S₂

2/2

Sample Receipt Checklist

S2 Work Order# 2305670

Client: Entrada Client Project ID: wildhorse 16-13LShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐
☐ ☐ ☐ ☐ ☐
Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 12.0Thermometer # 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"/>	<u>on ICE</u>
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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 checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>last sample did not match COC</u>
For volatiles in water – is there headspace 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 (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input 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.AS
Custodian Printed Name5/30/23
Date/Time



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: [none]
Project Manager: Ryan Finley

Reported:
01/22/24 16:47

SS01@5/WC01
2305670-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/30/23 11:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BGE1085	05/31/23	06/01/23	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: **05/30/23 11:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0346	86.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0349	87.2 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0298	74.6 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/30/23 11:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BGE1088	05/31/23	06/02/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/30/23 11:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	11.9	95.3 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L

Project Number: [none]
Project Manager: Ryan Finley

Reported:
01/22/24 16:47

SS01@5/WC01
2305670-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/30/23 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGF0065	06/02/23	06/03/23	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: **05/30/23 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0198	59.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0139	41.8 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/30/23 11:30**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	1.11	0.0100	mg/L	1	BGF0149	06/05/23	06/06/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/30/23 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L

Project Number: [none]
Project Manager: Ryan Finley

Reported:
01/22/24 16:47

SS01@5/WC01
2305670-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	0.709	0.200	mg/kg dry	1	BGF0155	06/05/23	06/07/23	EPA 6020B
Barium	374	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	1.44	0.400	"	"	"	"	"	"
Lead	8.20	0.200	"	"	"	"	"	"
Nickel	1.24	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	5.38	0.400	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/30/23 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGF0262	06/07/23	06/08/23	EPA 7196A	

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

Date Sampled: **05/30/23 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	117	0.0500	mg/L dry	1	BGF0178	06/06/23	06/08/23	EPA 6020B	
Magnesium	25.2	0.0500	"	"	"	"	"	"	
Sodium	121	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/30/23 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.65	0.00100	units	1	BGF0382	06/09/23	06/09/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L

Project Number: [none]
Project Manager: Ryan Finley

Reported:
01/22/24 16:47

SS01@5/WC01
2305670-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/30/23 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.8		%	1	BGF0134	06/05/23	06/05/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/30/23 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.22	0.0100	mmhos/cm	1	BGF0239	06/07/23	06/07/23	EPA 120.1	

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

Date Sampled: **05/30/23 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.80		pH Units	1	BGF0240	06/07/23	06/07/23	EPA 9045D	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: [none]
Project Manager: Ryan Finley

Reported:
01/22/24 16:47

SS02@3/WC02
2305670-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/30/23 11:32**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGE1085	05/31/23	06/01/23	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: **05/30/23 11:32**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0327	81.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0310	77.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0294	73.6 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/30/23 11:32**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGE1088	05/31/23	06/02/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/30/23 11:32**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	11.9	95.5 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L

Project Number: [none]
Project Manager: Ryan Finley

Reported:
01/22/24 16:47

SS02@3/WC02
2305670-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/30/23 11:32**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BGF0065	06/02/23	06/03/23	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: **05/30/23 11:32**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0233	69.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0150	45.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/30/23 11:32**

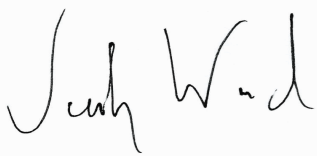
Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	0.617	0.0100	mg/L	1	BGF0149	06/05/23	06/06/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/30/23 11:32**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: [none]
Project Manager: Ryan Finley

Reported:
01/22/24 16:47

SS02@3/WC02
2305670-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	0.614	0.200	mg/kg dry	1	BGF0155	06/05/23	06/07/23	EPA 6020B
Barium	280	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	1.19	0.400	"	"	"	"	"	"
Lead	7.43	0.200	"	"	"	"	"	"
Nickel	1.02	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	4.48	0.400	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/30/23 11:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGF0262	06/07/23	06/08/23	EPA 7196A	

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

Date Sampled: **05/30/23 11:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	221	0.0500	mg/L dry	1	BGF0178	06/06/23	06/08/23	EPA 6020B	
Magnesium	45.0	0.0500	"	"	"	"	"	"	
Sodium	95.8	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/30/23 11:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.54	0.00100	units	1	BGF0382	06/09/23	06/09/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: [none]
Project Manager: Ryan Finley

Reported:
01/22/24 16:47

SS02@3/WC02
2305670-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/30/23 11:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.1		%	1	BGF0134	06/05/23	06/05/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/30/23 11:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.26	0.0100	mmhos/cm	1	BGF0239	06/07/23	06/07/23	EPA 120.1	

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

Date Sampled: **05/30/23 11:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.65		pH Units	1	BGF0240	06/07/23	06/07/23	EPA 9045D	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: [none]
Project Manager: Ryan Finley

Reported:
01/22/24 16:47

SS03@3/WC03
2305670-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/30/23 11:34**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGE1085	05/31/23	06/01/23	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: **05/30/23 11:34**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0372	93.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0456	114 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0421	105 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/30/23 11:34**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGE1088	05/31/23	06/02/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/30/23 11:34**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	11.3	90.4 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: [none]
Project Manager: Ryan Finley

Reported:
01/22/24 16:47

SS03@3/WC03
2305670-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/30/23 11:34**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BGF0065	06/02/23	06/03/23	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: **05/30/23 11:34**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0226	67.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0152	45.7 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/30/23 11:34**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	0.387	0.0100	mg/L	1	BGF0149	06/05/23	06/06/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/30/23 11:34**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: [none]
Project Manager: Ryan Finley

Reported:
01/22/24 16:47

SS03@3/WC03
2305670-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	0.682	0.200	mg/kg dry	1	BGF0155	06/05/23	06/07/23	EPA 6020B
Barium	260	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	1.23	0.400	"	"	"	"	"	"
Lead	7.49	0.200	"	"	"	"	"	"
Nickel	1.17	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	5.05	0.400	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/30/23 11:34**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGF0262	06/07/23	06/08/23	EPA 7196A	

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

Date Sampled: **05/30/23 11:34**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	276	0.0500	mg/L dry	1	BGF0178	06/06/23	06/08/23	EPA 6020B	
Magnesium	79.7	0.0500	"	"	"	"	"	"	
Sodium	165	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/30/23 11:34**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.25	0.00100	units	1	BGF0382	06/09/23	06/09/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: [none]
Project Manager: Ryan Finley

Reported:
01/22/24 16:47

SS03@3/WC03
2305670-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/30/23 11:34**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	79.6		%	1	BGF0134	06/05/23	06/05/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/30/23 11:34**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	5.30	0.0100	mmhos/cm	1	BGF0239	06/07/23	06/07/23	EPA 120.1	

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

Date Sampled: **05/30/23 11:34**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.58		pH Units	1	BGF0240	06/07/23	06/07/23	EPA 9045D	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: [none]
Project Manager: Ryan Finley

Reported:
01/22/24 16:47

SS04@2
2305670-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/30/23 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	2.16	0.0100	mg/L	1	BGF0504	06/14/23	06/19/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/30/23 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.730	0.200	mg/kg dry	1	BGF0484	06/13/23	06/19/23	EPA 6020B	
Barium	286	0.400	"	"	"	"	"	"	

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

Date Sampled: **05/30/23 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	973	0.0500	mg/L dry	1	BGF0467	06/13/23	06/17/23	EPA 6020B	
Magnesium	15.9	0.0500	"	"	"	"	"	"	
Sodium	294	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/30/23 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.56	0.00100	units	1	BGF0630	06/17/23	06/17/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/30/23 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	77.6		%	1	BGF0469	06/13/23	06/13/23	Calculation	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L

Project Number: [none]
Project Manager: Ryan Finley

Reported:
01/22/24 16:47

SS04@2
2305670-04 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/30/23 11:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	1.10	0.0100		mmhos/cm	1	BGF0496	06/14/23	06/14/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: [none]
Project Manager: Ryan Finley

Reported:
01/22/24 16:47

SS05@2
2305670-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/30/23 11:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	0.541	0.0100	mg/L	1	BGF0504	06/14/23	06/19/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/30/23 11:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	0.772	0.200	mg/kg dry	1	BGF0484	06/13/23	06/19/23	EPA 6020B	
Barium	425	0.400	"	"	"	"	"	"	

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

Date Sampled: **05/30/23 11:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	241	0.0500	mg/L dry	1	BGF0467	06/13/23	06/17/23	EPA 6020B	
Magnesium	26.2	0.0500	"	"	"	"	"	"	
Sodium	700	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/30/23 11:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Sodium Adsorption Ratio	11.4	0.00100	units	1	BGF0630	06/17/23	06/17/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/30/23 11:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
% Solids	80.0		%	1	BGF0469	06/13/23	06/13/23	Calculation	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L

Project Number: [none]
Project Manager: Ryan Finley

Reported:
01/22/24 16:47

SS05@2
2305670-05 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/30/23 11:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	7.16	0.0100		mmhos/cm	1	BGF0496	06/14/23	06/14/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: [none]
Project Manager: Ryan Finley

Reported:
01/22/24 16:47

SS06@2
2305670-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/30/23 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.369	0.0100	mg/L	1	BGF0504	06/14/23	06/19/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/30/23 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.802	0.200	mg/kg dry	1	BGF0484	06/13/23	06/19/23	EPA 6020B	
Barium	315	0.400	"	"	"	"	"	"	

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

Date Sampled: **05/30/23 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	593	0.0500	mg/L dry	1	BGF0467	06/13/23	06/17/23	EPA 6020B	
Magnesium	90.8	0.0500	"	"	"	"	"	"	
Sodium	364	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/30/23 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.68	0.00100	units	1	BGF0630	06/17/23	06/17/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/30/23 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.8		%	1	BGF0469	06/13/23	06/13/23	Calculation	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: [none]
Project Manager: Ryan Finley

Reported:
01/22/24 16:47

SS06@2
2305670-06 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/30/23 11:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	5.50	0.0100		mmhos/cm	1	BGF0496	06/14/23	06/14/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: [none]
Project Manager: Ryan Finley

Reported:
01/22/24 16:47

SS07@2
2305670-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/30/23 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.613	0.0100	mg/L	1	BGF0504	06/14/23	06/19/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/30/23 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.846	0.200	mg/kg dry	1	BGF0484	06/13/23	06/19/23	EPA 6020B	
Barium	232	0.400	"	"	"	"	"	"	

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

Date Sampled: **05/30/23 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	127	0.0500	mg/L dry	1	BGF0467	06/13/23	06/17/23	EPA 6020B	
Magnesium	22.1	0.0500	"	"	"	"	"	"	
Sodium	328	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/30/23 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	7.06	0.00100	units	1	BGF0630	06/17/23	06/17/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/30/23 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.8		%	1	BGF0469	06/13/23	06/13/23	Calculation	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L

Project Number: [none]
Project Manager: Ryan Finley

Reported:
01/22/24 16:47

SS07@2
2305670-07 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/30/23 11:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	3.14	0.0100		mmhos/cm	1	BGF0496	06/14/23	06/14/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: [none]
Project Manager: Ryan Finley

Reported:
01/22/24 16:47

SS08@2
2305670-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/30/23 12:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	0.718	0.0100	mg/L	1	BGF0504	06/14/23	06/19/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/30/23 12:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	1.09	0.200	mg/kg dry	1	BGF0484	06/13/23	06/19/23	EPA 6020B	
Barium	229	0.400	"	"	"	"	"	"	

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

Date Sampled: **05/30/23 12:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	343	0.0500	mg/L dry	1	BGF0467	06/13/23	06/17/23	EPA 6020B	
Magnesium	52.0	0.0500	"	"	"	"	"	"	
Sodium	434	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/30/23 12:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Sodium Adsorption Ratio	5.77	0.00100	units	1	BGF0630	06/17/23	06/17/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/30/23 12:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
% Solids	77.0		%	1	BGF0469	06/13/23	06/13/23	Calculation	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L

Project Number: [none]
Project Manager: Ryan Finley

Reported:
01/22/24 16:47

SS08@2
2305670-08 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/30/23 12:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	6.81	0.0100		mmhos/cm	1	BGF0496	06/14/23	06/14/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: [none]
Project Manager: Ryan Finley

Reported:
01/22/24 16:47

SS09@2
2305670-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/30/23 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.320	0.0100	mg/L	1	BGF0504	06/14/23	06/19/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/30/23 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.852	0.200	mg/kg dry	1	BGF0484	06/13/23	06/19/23	EPA 6020B	
Barium	190	0.400	"	"	"	"	"	"	

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

Date Sampled: **05/30/23 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	67.8	0.0500	mg/L dry	1	BGF0467	06/13/23	06/17/23	EPA 6020B	
Magnesium	13.9	0.0500	"	"	"	"	"	"	
Sodium	78.8	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/30/23 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.28	0.00100	units	1	BGF0630	06/17/23	06/17/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/30/23 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.0		%	1	BGF0469	06/13/23	06/13/23	Calculation	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L

Project Number: [none]
Project Manager: Ryan Finley

Reported:
01/22/24 16:47

SS09@2
2305670-09 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/30/23 12:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	1.98	0.0100		mmhos/cm	1	BGF0496	06/14/23	06/14/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: [none]
Project Manager: Ryan Finley

Reported:
01/22/24 16:47

SS10@1.5
2305670-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/30/23 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.421	0.0100	mg/L	1	BGF0504	06/14/23	06/19/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/30/23 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.977	0.200	mg/kg dry	1	BGF0484	06/13/23	06/19/23	EPA 6020B	
Barium	217	0.400	"	"	"	"	"	"	

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

Date Sampled: **05/30/23 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	281	0.0500	mg/L dry	1	BGF0467	06/13/23	06/17/23	EPA 6020B	
Magnesium	26.7	0.0500	"	"	"	"	"	"	
Sodium	708	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/30/23 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	10.8	0.00100	units	1	BGF0630	06/17/23	06/17/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/30/23 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	75.2		%	1	BGF0469	06/13/23	06/13/23	Calculation	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L

Project Number: [none]
Project Manager: Ryan Finley

Reported:
01/22/24 16:47

SS10@1.5
2305670-10 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/30/23 12:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	8.82	0.0100		mmhos/cm	1	BGF0496	06/14/23	06/14/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: [none]
Project Manager: Ryan Finley

Reported:
01/22/24 16:47

SS11@2
2305670-11 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/30/23 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	3.13	0.0100	mg/L	1	BGF0504	06/14/23	06/19/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/30/23 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.673	0.200	mg/kg dry	1	BGF0484	06/13/23	06/19/23	EPA 6020B	
Barium	233	0.400	"	"	"	"	"	"	

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

Date Sampled: **05/30/23 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	63.7	0.0500	mg/L dry	1	BGF0467	06/13/23	06/17/23	EPA 6020B	
Magnesium	7.48	0.0500	"	"	"	"	"	"	
Sodium	1730	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/30/23 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	54.6	0.00100	units	1	BGF0630	06/17/23	06/17/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/30/23 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	79.2		%	1	BGF0469	06/13/23	06/13/23	Calculation	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: [none]
Project Manager: Ryan Finley

Reported:
01/22/24 16:47

SS11@2
2305670-11 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/30/23 12:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	7.62	0.0100		mmhos/cm	1	BGF0496	06/14/23	06/14/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: [none]
Project Manager: Ryan Finley

Reported:
01/22/24 16:47

SS12@2
2305670-12 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/30/23 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	4.05	0.0100	mg/L	1	BGF0504	06/14/23	06/19/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/30/23 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.725	0.200	mg/kg dry	1	BGF0484	06/13/23	06/19/23	EPA 6020B	
Barium	314	0.400	"	"	"	"	"	"	

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

Date Sampled: **05/30/23 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	102	0.0500	mg/L dry	1	BGF0467	06/13/23	06/17/23	EPA 6020B	
Magnesium	13.0	0.0500	"	"	"	"	"	"	
Sodium	1050	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/30/23 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	26.0	0.00100	units	1	BGF0630	06/17/23	06/17/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/30/23 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	75.0		%	1	BGF0469	06/13/23	06/13/23	Calculation	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction. CO, 81501

Project: Wildhorse 16-13L
Project Number: [none]
Project Manager: Ryan Finley

Reported:
01/22/24 16:47

SS12@2
2305670-12 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/30/23 12:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	4.22	0.0100		mmhos/cm	1	BGF0496	06/14/23	06/14/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: [none]
Project Manager: Ryan Finley

Reported:
01/22/24 16:47

SS13@2
2305670-13 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/30/23 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	3.63	0.0100	mg/L	1	BGF0504	06/14/23	06/19/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/30/23 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.735	0.200	mg/kg dry	1	BGF0484	06/13/23	06/19/23	EPA 6020B	
Barium	254	0.400	"	"	"	"	"	"	

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

Date Sampled: **05/30/23 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	13.9	0.0500	mg/L dry	1	BGF0467	06/13/23	06/17/23	EPA 6020B	
Magnesium	5.16	0.0500	"	"	"	"	"	"	
Sodium	1210	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/30/23 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	70.4	0.00100	units	1	BGF0630	06/17/23	06/17/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/30/23 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	79.6		%	1	BGF0469	06/13/23	06/13/23	Calculation	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L

Project Number: [none]
Project Manager: Ryan Finley

Reported:
01/22/24 16:47

SS13@2
2305670-13 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/30/23 12:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	7.14	0.0100		mmhos/cm	1	BGF0496	06/14/23	06/14/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: [none]
Project Manager: Ryan Finley

Reported:
01/22/24 16:47

SS14@2
2305670-14 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/30/23 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	2.65	0.0100	mg/L	1	BGF0504	06/14/23	06/19/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/30/23 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.836	0.200	mg/kg dry	1	BGF0484	06/13/23	06/19/23	EPA 6020B	
Barium	325	0.400	"	"	"	"	"	"	

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

Date Sampled: **05/30/23 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	86.7	0.0500	mg/L dry	1	BGF0467	06/13/23	06/17/23	EPA 6020B	
Magnesium	8.25	0.0500	"	"	"	"	"	"	
Sodium	1350	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/30/23 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	37.1	0.00100	units	1	BGF0630	06/17/23	06/17/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/30/23 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	75.3		%	1	BGF0469	06/13/23	06/13/23	Calculation	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L

Project Number: [none]
Project Manager: Ryan Finley

Reported:
01/22/24 16:47

SS14@2
2305670-14 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/30/23 12:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	6.21	0.0100		mmhos/cm	1	BGF0496	06/14/23	06/14/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: [none]
Project Manager: Ryan Finley

Reported:
01/22/24 16:47

SS15@2
2305670-15 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/30/23 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	2.82	0.0100	mg/L	1	BGF0504	06/14/23	06/19/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/30/23 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.871	0.200	mg/kg dry	1	BGF0484	06/13/23	06/19/23	EPA 6020B	
Barium	343	0.400	"	"	"	"	"	"	

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

Date Sampled: **05/30/23 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	57.0	0.0500	mg/L dry	1	BGF0467	06/13/23	06/17/23	EPA 6020B	
Magnesium	6.10	0.0500	"	"	"	"	"	"	
Sodium	1250	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/30/23 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	42.0	0.00100	units	1	BGF0630	06/17/23	06/17/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/30/23 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	75.9		%	1	BGF0469	06/13/23	06/13/23	Calculation	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: [none]
Project Manager: Ryan Finley

Reported:
01/22/24 16:47

SS15@2
2305670-15 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/30/23 12:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	7.63	0.0100		mmhos/cm	1	BGF0496	06/14/23	06/14/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: [none]
Project Manager: Ryan Finley

Reported:
01/22/24 16:47

SS16@1.5
2305670-16 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/30/23 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	8.02	0.0100	mg/L	1	BGF0149	06/05/23	06/06/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/30/23 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.822	0.200	mg/kg dry	1	BGF0155	06/05/23	06/07/23	EPA 6020B	
Barium	290	0.400	"	"	"	"	"	"	

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

Date Sampled: **05/30/23 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	72.4	0.0500	mg/L dry	1	BGF0178	06/06/23	06/08/23	EPA 6020B	
Magnesium	7.79	0.0500	"	"	"	"	"	"	
Sodium	1750	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/30/23 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	52.2	0.00100	units	1	BGF0382	06/09/23	06/09/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/30/23 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	76.8		%	1	BGF0134	06/05/23	06/05/23	Calculation	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: [none]
Project Manager: Ryan Finley

Reported:
01/22/24 16:47

SS16@1.5
2305670-16 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/30/23 12:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	9.42	0.0100		mmhos/cm	1	BGF0239	06/07/23	06/07/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: [none]
Project Manager: Ryan Finley

Reported:
01/22/24 16:47

BKG01@5
2305670-17 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/30/23 13:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	0.299	0.0100	mg/L	1	BGF0149	06/05/23	06/06/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/30/23 13:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	0.454	0.200	mg/kg dry	1	BGF0155	06/05/23	06/07/23	EPA 6020B	
Barium	124	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

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

Date Sampled: **05/30/23 13:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	61.6	0.0500	mg/L dry	1	BGF0178	06/06/23	06/08/23	EPA 6020B	
Magnesium	10.2	0.0500	"	"	"	"	"	"	
Sodium	66.0	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/30/23 13:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Sodium Adsorption Ratio	2.05	0.00100	units	1	BGF0382	06/09/23	06/09/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/30/23 13:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
% Solids	92.5		%	1	BGF0134	06/05/23	06/05/23	Calculation	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L

Project Number: [none]
Project Manager: Ryan Finley

Reported:
01/22/24 16:47

BKG01@5
2305670-17 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/30/23 13:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	1.69	0.0100		mmhos/cm	1	BGF0239	06/07/23	06/07/23	EPA 120.1	

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

Date Sampled: **05/30/23 13:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.81			pH Units	1	BGF0240	06/07/23	06/07/23	EPA 9045D	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: [none]
Project Manager: Ryan Finley

Reported:
01/22/24 16:47

C01
2305670-18 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

BTL-01, I-04

Date Sampled: **05/30/23 13:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGF0471	06/13/23	06/13/23	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: **05/30/23 13:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0387	96.7 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0378	94.5 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0395	98.8 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

BTL-01

Date Sampled: **05/30/23 13:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGF0480	06/13/23	06/13/23	EPA 8015M	I-04
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	I-04

Date Sampled: **05/30/23 13:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	11.7	93.3 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L

Project Number: [none]
Project Manager: Ryan Finley

Reported:
01/22/24 16:47

C01
2305670-18 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/30/23 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGF0464	06/13/23	06/13/23	EPA 8270D SIM	BTL-01
Anthracene	ND	0.00500	"	"	"	"	"	"	BTL-01
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	BTL-01
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	BTL-01
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	BTL-01
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	BTL-01
Chrysene	ND	0.00500	"	"	"	"	"	"	BTL-01
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	BTL-01
Fluoranthene	ND	0.00500	"	"	"	"	"	"	BTL-01
Fluorene	ND	0.00500	"	"	"	"	"	"	BTL-01
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	BTL-01
Pyrene	ND	0.00500	"	"	"	"	"	"	BTL-01
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	BTL-01
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	BTL-01

Date Sampled: **05/30/23 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0172	51.6 %	40-150		"	"	"	"	BTL-01
Surrogate: Fluoranthene-d10	0.0242	72.6 %	40-150		"	"	"	"	BTL-01

Total Metals by EPA 6020B

Date Sampled: **05/30/23 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.697	0.200	mg/kg dry	1	BGF0155	06/05/23	06/07/23	EPA 6020B	
Barium	292	0.400	"	"	"	"	"	"	
Cadmium	0.219	0.200	"	"	"	"	"	"	
Copper	1.67	0.400	"	"	"	"	"	"	
Lead	9.13	0.200	"	"	"	"	"	"	
Nickel	1.41	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: [none]
Project Manager: Ryan Finley

Reported:
01/22/24 16:47

C01
2305670-18 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Silver	ND	0.0200	mg/kg dry	1	BGF0155	06/05/23	06/07/23	EPA 6020B
Zinc	5.91	0.400	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/30/23 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGF0733	06/21/23	06/21/23	EPA 7196A	

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

Date Sampled: **05/30/23 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	101	0.0500	mg/L dry	1	BGF0178	06/06/23	06/08/23	EPA 6020B	
Magnesium	11.1	0.0500	"	"	"	"	"	"	
Sodium	1030	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/30/23 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	26.0	0.00100	units	1	BGF0382	06/09/23	06/09/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/30/23 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.5		%	1	BGF0134	06/05/23	06/05/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction. CO, 81501

Project: Wildhorse 16-13L
Project Number: [none]
Project Manager: Ryan Finley

Reported:
01/22/24 16:47

C01
2305670-18 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/30/23 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	6.76	0.0100		mmhos/cm	1	BGF0239	06/07/23	06/07/23	EPA 120.1	

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

Date Sampled: **05/30/23 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.65			pH Units	1	BGF0240	06/07/23	06/07/23	EPA 9045D	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: [none]
Project Manager: Ryan Finley

Reported:
01/22/24 16:47

C01
2305670-18RE1 (Soil)


Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/30/23 13:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	1.21	0.0100	mg/L	1	BGF0607	06/05/23	06/18/23	EPA 6020B	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: [none]
Project Manager: Ryan Finley

Reported:
01/22/24 16:47

C02
2305670-19 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

BTL-01, I-04

Date Sampled: **05/30/23 13:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGF0471	06/13/23	06/13/23	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: **05/30/23 13:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0376	94.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0372	93.1 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0406	102 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

BTL-01

Date Sampled: **05/30/23 13:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGF0480	06/13/23	06/13/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	I-04

Date Sampled: **05/30/23 13:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	11.7	93.5 %	30-150		"	"	"	"	I-04

PAH by EPA Method 8270D SIM

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L

Project Number: [none]
Project Manager: Ryan Finley

Reported:
01/22/24 16:47

C02
2305670-19 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/30/23 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGF0464	06/13/23	06/13/23	EPA 8270D SIM	BTL-01
Anthracene	ND	0.00500	"	"	"	"	"	"	BTL-01
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	BTL-01
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	BTL-01
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	BTL-01
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	BTL-01
Chrysene	ND	0.00500	"	"	"	"	"	"	BTL-01
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	BTL-01
Fluoranthene	ND	0.00500	"	"	"	"	"	"	BTL-01
Fluorene	ND	0.00500	"	"	"	"	"	"	BTL-01
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	BTL-01
Pyrene	ND	0.00500	"	"	"	"	"	"	BTL-01
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	BTL-01
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	BTL-01

Date Sampled: **05/30/23 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0237	71.0 %	40-150		"	"	"	"	BTL-01
Surrogate: Fluoranthene-d10	0.0259	77.8 %	40-150		"	"	"	"	BTL-01

Total Metals by EPA 6020B

Date Sampled: **05/30/23 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.763	0.200	mg/kg dry	1	BGF0155	06/05/23	06/07/23	EPA 6020B	
Barium	333	0.400	"	"	"	"	"	"	
Cadmium	0.226	0.200	"	"	"	"	"	"	
Copper	1.92	0.400	"	"	"	"	"	"	
Lead	9.66	0.200	"	"	"	"	"	"	
Nickel	1.63	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: [none]
Project Manager: Ryan Finley

Reported:
01/22/24 16:47

C02
2305670-19 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Silver	ND	0.0200	mg/kg dry	1	BGF0155	06/05/23	06/07/23	EPA 6020B
Zinc	7.13	0.400	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/30/23 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGF0733	06/21/23	06/21/23	EPA 7196A	

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

Date Sampled: **05/30/23 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	205	0.0500	mg/L dry	1	BGF0178	06/06/23	06/08/23	EPA 6020B	
Magnesium	27.4	0.0500	"	"	"	"	"	"	
Sodium	1850	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/30/23 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	32.2	0.00100	units	1	BGF0382	06/09/23	06/09/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/30/23 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	73.0		%	1	BGF0134	06/05/23	06/05/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L

Project Number: [none]
Project Manager: Ryan Finley

Reported:
01/22/24 16:47

C02
2305670-19 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/30/23 13:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	6.41	0.0100		mmhos/cm	1	BGF0239	06/07/23	06/07/23	EPA 120.1	

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

Date Sampled: **05/30/23 13:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.70			pH Units	1	BGF0240	06/07/23	06/07/23	EPA 9045D	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: [none]
Project Manager: Ryan Finley

Reported:
01/22/24 16:47

C02
2305670-19RE1 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/30/23 13:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	1.08	0.0100	mg/L	1	BGF0607	06/05/23	06/18/23	EPA 6020B	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: [none]
Project Manager: Ryan Finley

Reported:
01/22/24 16:47

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 BGE1085 - EPA 5030 Soil MS

Blank (BGE1085-BLK1)

Prepared: 05/31/23 Analyzed: 06/01/23

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	0.0378		"	0.0400		94.5	50-150			
Surrogate: Toluene-d8	0.0381		"	0.0400		95.2	50-150			
Surrogate: 4-Bromofluorobenzene	0.0368		"	0.0400		92.1	50-150			

LCS (BGE1085-BS1)

Prepared: 05/31/23 Analyzed: 06/01/23

Benzene	0.0924	0.0020	mg/kg	0.0750		123	70-130			
Toluene	0.0787	0.0050	"	0.0750		105	70-130			
Ethylbenzene	0.0764	0.0050	"	0.0750		102	70-130			
m,p-Xylene	0.150	0.010	"	0.150		100	70-130			
o-Xylene	0.0709	0.0050	"	0.0750		94.5	70-130			
1,2,4-Trimethylbenzene	0.0640	0.0050	"	0.0750		85.3	70-130			
1,3,5-Trimethylbenzene	0.0790	0.0050	"	0.0750		105	70-130			
Naphthalene	0.0583	0.0038	"	0.0750		77.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0497		"	0.0400		124	50-150			
Surrogate: Toluene-d8	0.0381		"	0.0400		95.2	50-150			
Surrogate: 4-Bromofluorobenzene	0.0410		"	0.0400		103	50-150			

Matrix Spike (BGE1085-MS1)

Source: 2305633-01

Prepared: 05/31/23 Analyzed: 06/01/23

Benzene	0.0903	0.0020	mg/kg	0.0750	ND	120	70-130			
Toluene	0.0833	0.0050	"	0.0750	ND	111	70-130			
Ethylbenzene	0.0871	0.0050	"	0.0750	ND	116	70-130			
m,p-Xylene	0.172	0.010	"	0.150	ND	114	70-130			
o-Xylene	0.0817	0.0050	"	0.0750	ND	109	70-130			
1,2,4-Trimethylbenzene	0.0731	0.0050	"	0.0750	ND	97.5	70-130			
1,3,5-Trimethylbenzene	0.0900	0.0050	"	0.0750	ND	120	70-130			
Naphthalene	0.0765	0.0038	"	0.0750	ND	102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0515		"	0.0400		129	50-150			
Surrogate: Toluene-d8	0.0360		"	0.0400		90.0	50-150			
Surrogate: 4-Bromofluorobenzene	0.0402		"	0.0400		101	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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: [none]
Project Manager: Ryan Finley

Reported:
01/22/24 16:47

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 BGE1085 - EPA 5030 Soil MS

Matrix Spike Dup (BGE1085-MSD1)		Source: 2305633-01			Prepared: 05/31/23 Analyzed: 06/01/23					
Benzene	0.0901	0.0020	mg/kg	0.0750	ND	120	70-130	0.266	30	
Toluene	0.0826	0.0050	"	0.0750	ND	110	70-130	0.832	30	
Ethylbenzene	0.0919	0.0050	"	0.0750	ND	123	70-130	5.43	30	
m,p-Xylene	0.181	0.010	"	0.150	ND	120	70-130	5.14	30	
o-Xylene	0.0858	0.0050	"	0.0750	ND	114	70-130	4.91	30	
1,2,4-Trimethylbenzene	0.0778	0.0050	"	0.0750	ND	104	70-130	6.16	30	
1,3,5-Trimethylbenzene	0.0952	0.0050	"	0.0750	ND	127	70-130	5.67	30	
Naphthalene	0.0874	0.0038	"	0.0750	ND	117	70-130	13.4	30	
<hr/>										
Surrogate: 1,2-Dichloroethane-d4	0.0547		"	0.0400		137	50-150			
Surrogate: Toluene-d8	0.0352		"	0.0400		88.1	50-150			
Surrogate: 4-Bromofluorobenzene	0.0393		"	0.0400		98.2	50-150			

Batch BGF0471 - EPA 5030 Soil MS

Blank (BGF0471-BLK1)		Prepared: 06/06/23 Analyzed: 06/13/23								
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	"							
<hr/>										
Surrogate: 1,2-Dichloroethane-d4	0.0382		"	0.0400		95.4	50-150			
Surrogate: Toluene-d8	0.0380		"	0.0400		95.0	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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: [none]
Project Manager: Ryan Finley

Reported:
01/22/24 16:47

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 BGF0471 - EPA 5030 Soil MS

LCS (BGF0471-BS1)

Prepared: 06/06/23 Analyzed: 06/13/23

Benzene	0.0688	0.0020	mg/kg	0.0750		91.7	70-130			
Toluene	0.0800	0.0050	"	0.0750		107	70-130			
Ethylbenzene	0.0940	0.0050	"	0.0750		125	70-130			
m,p-Xylene	0.185	0.010	"	0.150		123	70-130			
o-Xylene	0.0819	0.0050	"	0.0750		109	70-130			
1,2,4-Trimethylbenzene	0.0847	0.0050	"	0.0750		113	70-130			
1,3,5-Trimethylbenzene	0.0903	0.0050	"	0.0750		120	70-130			
Naphthalene	0.0654	0.0038	"	0.0750		87.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0333		"	0.0400		83.2	50-150			
Surrogate: Toluene-d8	0.0385		"	0.0400		96.3	50-150			
Surrogate: 4-Bromofluorobenzene	0.0391		"	0.0400		97.8	50-150			

Matrix Spike (BGF0471-MS1)

Source: 2306210-01

Prepared: 06/06/23 Analyzed: 06/13/23

Benzene	0.0651	0.0020	mg/kg	0.0750	ND	86.8	70-130			
Toluene	0.0732	0.0050	"	0.0750	ND	97.6	70-130			
Ethylbenzene	0.0876	0.0050	"	0.0750	ND	117	70-130			
m,p-Xylene	0.172	0.010	"	0.150	ND	115	70-130			
o-Xylene	0.0779	0.0050	"	0.0750	ND	104	70-130			
1,2,4-Trimethylbenzene	0.0822	0.0050	"	0.0750	ND	110	70-130			
1,3,5-Trimethylbenzene	0.0846	0.0050	"	0.0750	ND	113	70-130			
Naphthalene	0.0705	0.0038	"	0.0750	ND	94.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0348		"	0.0400		86.9	50-150			
Surrogate: Toluene-d8	0.0378		"	0.0400		94.5	50-150			
Surrogate: 4-Bromofluorobenzene	0.0404		"	0.0400		101	50-150			

Matrix Spike Dup (BGF0471-MSD1)

Source: 2306210-01

Prepared: 06/06/23 Analyzed: 06/13/23

Benzene	0.0662	0.0020	mg/kg	0.0750	ND	88.3	70-130	1.64	30	
Toluene	0.0751	0.0050	"	0.0750	ND	100	70-130	2.51	30	
Ethylbenzene	0.0872	0.0050	"	0.0750	ND	116	70-130	0.446	30	
m,p-Xylene	0.173	0.010	"	0.150	ND	115	70-130	0.191	30	
o-Xylene	0.0770	0.0050	"	0.0750	ND	103	70-130	1.20	30	
1,2,4-Trimethylbenzene	0.0818	0.0050	"	0.0750	ND	109	70-130	0.512	30	
1,3,5-Trimethylbenzene	0.0853	0.0050	"	0.0750	ND	114	70-130	0.777	30	
Naphthalene	0.0730	0.0038	"	0.0750	ND	97.4	70-130	3.55	30	
Surrogate: 1,2-Dichloroethane-d4	0.0356		"	0.0400		88.9	50-150			
Surrogate: Toluene-d8	0.0383		"	0.0400		95.8	50-150			
Surrogate: 4-Bromofluorobenzene	0.0400		"	0.0400		100	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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: [none]
Project Manager: Ryan Finley

Reported:
01/22/24 16:47

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 BGE1088 - EPA 3550A

Blank (BGE1088-BLK1)

Prepared & Analyzed: 05/31/23

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	11.9		"	12.5		95.1	30-150			

LCS (BGE1088-BS1)

Prepared & Analyzed: 05/31/23

C10-C28 (DRO)	404	50	mg/kg	500		80.8	70-130			
Surrogate: o-Terphenyl	12.6		"	12.5		101	30-150			

Matrix Spike (BGE1088-MS1)

Source: 2305633-01

Prepared & Analyzed: 05/31/23

C10-C28 (DRO)	371	50	mg/kg	500	6.71	72.9	70-130			
Surrogate: o-Terphenyl	11.6		"	12.5		92.8	30-150			

Matrix Spike Dup (BGE1088-MSD1)

Source: 2305633-01

Prepared & Analyzed: 05/31/23

C10-C28 (DRO)	397	50	mg/kg	500	6.71	78.0	70-130	6.63	20	
Surrogate: o-Terphenyl	11.9		"	12.5		95.3	30-150			

Batch BGF0480 - EPA 3550A

Blank (BGF0480-BLK1)

Prepared & Analyzed: 06/13/23


C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	11.9		"	12.5		95.5	30-150			

LCS (BGF0480-BS1)

Prepared & Analyzed: 06/13/23

C10-C28 (DRO)	449	50	mg/kg	500		89.8	70-130			
Surrogate: o-Terphenyl	11.7		"	12.5		93.3	30-150			

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L

Project Number: [none]
Project Manager: Ryan Finley

Reported:
01/22/24 16:47

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 BGF0480 - EPA 3550A

Matrix Spike (BGF0480-MS1)		Source: 2306210-01			Prepared & Analyzed: 06/13/23					
C10-C28 (DRO)	421	50	mg/kg	500	18.5	80.5	70-130			
Surrogate: o-Terphenyl	11.5		"	12.5		91.9	30-150			
Matrix Spike Dup (BGF0480-MSD1)		Source: 2306210-01			Prepared & Analyzed: 06/13/23					
C10-C28 (DRO)	465	50	mg/kg	500	18.5	89.3	70-130	9.89	20	
Surrogate: o-Terphenyl	12.3		"	12.5		98.7	30-150			

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: [none]
Project Manager: Ryan Finley

Reported:
01/22/24 16:47

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	Notes

Batch BGF0065 - EPA 5030 Soil MS

Blank (BGF0065-BLK1)

Prepared: 06/02/23 Analyzed: 06/03/23

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	0.0355		"	0.0333		106	40-150			
Surrogate: Fluoranthene-d10	0.0322		"	0.0333		96.7	40-150			

LCS (BGF0065-BS1)

Prepared: 06/02/23 Analyzed: 06/03/23

Acenaphthene	0.0199	0.00500	mg/kg	0.0333	59.7	31-137
Anthracene	0.0376	0.00500	"	0.0333	113	30-120
Benzo (a) anthracene	0.0327	0.00500	"	0.0333	98.1	30-120
Benzo (a) pyrene	0.0316	0.00500	"	0.0333	94.7	30-120
Benzo (b) fluoranthene	0.0307	0.00500	"	0.0333	92.0	30-120
Benzo (k) fluoranthene	0.0361	0.00500	"	0.0333	108	30-120
Chrysene	0.0385	0.00500	"	0.0333	115	30-120
Dibenz (a,h) anthracene	0.0387	0.00500	"	0.0333	116	30-120
Fluoranthene	0.0327	0.00500	"	0.0333	98.0	30-120
Fluorene	0.0387	0.00500	"	0.0333	116	30-120
Indeno (1,2,3-cd) pyrene	0.0390	0.00500	"	0.0333	117	30-120
Pyrene	0.0333	0.00500	"	0.0333	100	35-142
1-Methylnaphthalene	0.0352	0.00500	"	0.0333	106	35-142
2-Methylnaphthalene	0.0380	0.00500	"	0.0333	114	35-142
Surrogate: 2-Methylnaphthalene-d10	0.0373		"	0.0333	112	40-150
Surrogate: Fluoranthene-d10	0.0334		"	0.0333	100	40-150

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L

Project Number: [none]
Project Manager: Ryan Finley

Reported:
01/22/24 16:47

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	Notes

Batch BGF0065 - EPA 5030 Soil MS

Matrix Spike (BGF0065-MS1)		Source: 2305670-01			Prepared: 06/02/23 Analyzed: 06/03/23					
Acenaphthene	0.0140	0.00500	mg/kg	0.0333	ND	42.1	31-137			
Anthracene	0.0172	0.00500	"	0.0333	ND	51.7	30-120			
Benzo (a) anthracene	0.0164	0.00500	"	0.0333	ND	49.1	30-120			
Benzo (a) pyrene	0.0160	0.00500	"	0.0333	ND	48.1	30-120			
Benzo (b) fluoranthene	0.0169	0.00500	"	0.0333	ND	50.8	30-120			
Benzo (k) fluoranthene	0.0202	0.00500	"	0.0333	ND	60.7	30-120			
Chrysene	0.0179	0.00500	"	0.0333	ND	53.7	30-120			
Dibenz (a,h) anthracene	0.0333	0.00500	"	0.0333	ND	99.8	30-120			
Fluoranthene	0.0141	0.00500	"	0.0333	ND	42.4	30-120			
Fluorene	0.0187	0.00500	"	0.0333	ND	56.0	30-120			
Indeno (1,2,3-cd) pyrene	0.0351	0.00500	"	0.0333	ND	105	30-120			
Pyrene	0.0325	0.00500	"	0.0333	ND	97.6	35-142			
1-Methylnaphthalene	0.0181	0.00500	"	0.0333	ND	54.4	15-130			
2-Methylnaphthalene	0.0188	0.00500	"	0.0333	ND	56.4	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0186		"	0.0333		55.7	40-150			
Surrogate: Fluoranthene-d10	0.0141		"	0.0333		42.4	40-150			

Matrix Spike Dup (BGF0065-MSD1)		Source: 2305670-01			Prepared: 06/02/23 Analyzed: 06/03/23					
Acenaphthene	0.0164	0.00500	mg/kg	0.0333	ND	49.3	31-137	15.6	30	
Anthracene	0.0167	0.00500	"	0.0333	ND	50.2	30-120	2.89	30	
Benzo (a) anthracene	0.0159	0.00500	"	0.0333	ND	47.8	30-120	2.69	30	
Benzo (a) pyrene	0.0167	0.00500	"	0.0333	ND	50.2	30-120	4.33	30	
Benzo (b) fluoranthene	0.0155	0.00500	"	0.0333	ND	46.4	30-120	8.90	30	
Benzo (k) fluoranthene	0.0214	0.00500	"	0.0333	ND	64.1	30-120	5.37	30	
Chrysene	0.0181	0.00500	"	0.0333	ND	54.4	30-120	1.36	30	
Dibenz (a,h) anthracene	0.0367	0.00500	"	0.0333	ND	110	30-120	9.73	30	
Fluoranthene	0.0136	0.00500	"	0.0333	ND	40.7	30-120	4.13	30	
Fluorene	0.0182	0.00500	"	0.0333	ND	54.5	30-120	2.58	30	
Indeno (1,2,3-cd) pyrene	0.0352	0.00500	"	0.0333	ND	106	30-120	0.274	30	
Pyrene	0.0330	0.00500	"	0.0333	ND	99.0	35-142	1.37	30	
1-Methylnaphthalene	0.0184	0.00500	"	0.0333	ND	55.2	15-130	1.42	50	
2-Methylnaphthalene	0.0190	0.00500	"	0.0333	ND	56.9	15-130	0.874	50	
Surrogate: 2-Methylnaphthalene-d10	0.0180		"	0.0333		54.0	40-150			
Surrogate: Fluoranthene-d10	0.0143		"	0.0333		42.8	40-150			

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: [none]
Project Manager: Ryan Finley

Reported:
01/22/24 16:47

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	Notes

Batch BGF0464 - EPA 5030 Soil MS

Blank (BGF0464-BLK1)

Prepared & Analyzed: 06/13/23

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	0.0279		"	0.0333		83.6	40-150			
Surrogate: Fluoranthene-d10	0.0345		"	0.0333		104	40-150			

LCS (BGF0464-BS1)

Prepared & Analyzed: 06/13/23

Acenaphthene	0.0328	0.00500	mg/kg	0.0333		98.5	31-137			
Anthracene	0.0347	0.00500	"	0.0333		104	30-120			
Benzo (a) anthracene	0.0292	0.00500	"	0.0333		87.5	30-120			
Benzo (a) pyrene	0.0278	0.00500	"	0.0333		83.5	30-120			
Benzo (b) fluoranthene	0.0294	0.00500	"	0.0333		88.3	30-120			
Benzo (k) fluoranthene	0.0315	0.00500	"	0.0333		94.5	30-120			
Chrysene	0.0345	0.00500	"	0.0333		103	30-120			
Dibenz (a,h) anthracene	0.0212	0.00500	"	0.0333		63.7	30-120			
Fluoranthene	0.0325	0.00500	"	0.0333		97.4	30-120			
Fluorene	0.0325	0.00500	"	0.0333		97.4	30-120			
Indeno (1,2,3-cd) pyrene	0.0189	0.00500	"	0.0333		56.7	30-120			
Pyrene	0.0360	0.00500	"	0.0333		108	35-142			
1-Methylnaphthalene	0.0268	0.00500	"	0.0333		80.4	35-142			
2-Methylnaphthalene	0.0287	0.00500	"	0.0333		86.0	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0294		"	0.0333		88.2	40-150			
Surrogate: Fluoranthene-d10	0.0327		"	0.0333		98.2	40-150			

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L

Project Number: [none]
Project Manager: Ryan Finley

Reported:
01/22/24 16:47

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	Notes

Batch BGF0464 - EPA 5030 Soil MS

Matrix Spike (BGF0464-MS1)			Source: 2306210-01			Prepared & Analyzed: 06/13/23					
Acenaphthene	0.0145	0.00500	mg/kg	0.0333	ND	43.4	31-137				
Anthracene	0.0134	0.00500	"	0.0333	ND	40.1	30-120				
Benzo (a) anthracene	0.0136	0.00500	"	0.0333	ND	40.9	30-120				
Benzo (a) pyrene	0.0154	0.00500	"	0.0333	ND	46.2	30-120				
Benzo (b) fluoranthene	0.0140	0.00500	"	0.0333	ND	42.1	30-120				
Benzo (k) fluoranthene	0.0160	0.00500	"	0.0333	ND	47.9	30-120				
Chrysene	0.0151	0.00500	"	0.0333	ND	45.3	30-120				
Dibenz (a,h) anthracene	0.0137	0.00500	"	0.0333	ND	41.2	30-120				
Fluoranthene	0.0134	0.00500	"	0.0333	ND	40.1	30-120				
Fluorene	0.0146	0.00500	"	0.0333	ND	43.9	30-120				
Indeno (1,2,3-cd) pyrene	0.0137	0.00500	"	0.0333	ND	41.0	30-120				
Pyrene	0.0144	0.00500	"	0.0333	ND	43.1	35-142				
1-Methylnaphthalene	0.0147	0.00500	"	0.0333	ND	44.0	15-130				
2-Methylnaphthalene	0.0136	0.00500	"	0.0333	ND	40.7	15-130				
Surrogate: 2-Methylnaphthalene-d10	0.0151		"	0.0333		45.3	40-150				
Surrogate: Fluoranthene-d10	0.0139		"	0.0333		41.6	40-150				

Matrix Spike Dup (BGF0464-MSD1)			Source: 2306210-01			Prepared & Analyzed: 06/13/23					
Acenaphthene	0.0158	0.00500	mg/kg	0.0333	ND	47.3	31-137	8.70	30		
Anthracene	0.0151	0.00500	"	0.0333	ND	45.3	30-120	12.1	30		
Benzo (a) anthracene	0.0170	0.00500	"	0.0333	ND	51.1	30-120	22.2	30		
Benzo (a) pyrene	0.0154	0.00500	"	0.0333	ND	46.3	30-120	0.149	30		
Benzo (b) fluoranthene	0.0154	0.00500	"	0.0333	ND	46.2	30-120	9.34	30		
Benzo (k) fluoranthene	0.0150	0.00500	"	0.0333	ND	44.9	30-120	6.63	30		
Chrysene	0.0178	0.00500	"	0.0333	ND	53.3	30-120	16.2	30		
Dibenz (a,h) anthracene	0.0143	0.00500	"	0.0333	ND	42.9	30-120	4.06	30		
Fluoranthene	0.0158	0.00500	"	0.0333	ND	47.5	30-120	16.8	30		
Fluorene	0.0150	0.00500	"	0.0333	ND	44.9	30-120	2.32	30		
Indeno (1,2,3-cd) pyrene	0.0148	0.00500	"	0.0333	ND	44.4	30-120	7.93	30		
Pyrene	0.0193	0.00500	"	0.0333	ND	57.8	35-142	29.1	30		
1-Methylnaphthalene	0.0168	0.00500	"	0.0333	ND	50.3	15-130	13.5	50		
2-Methylnaphthalene	0.0167	0.00500	"	0.0333	ND	50.1	15-130	20.5	50		
Surrogate: 2-Methylnaphthalene-d10	0.0174		"	0.0333		52.3	40-150				
Surrogate: Fluoranthene-d10	0.0208		"	0.0333		62.5	40-150				

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L

Project Number: [none]
Project Manager: Ryan Finley

Reported:
01/22/24 16:47

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 BGF0149 - EPA 3050B

Blank (BGF0149-BLK1)

Prepared: 06/05/23 Analyzed: 06/06/23

Boron ND 0.0100 mg/L

LCS (BGF0149-BS1)

Prepared: 06/05/23 Analyzed: 06/06/23

Boron 5.77 0.0100 mg/L 5.00 115 80-120

Duplicate (BGF0149-DUP1)

Source: 2305662-01

Prepared: 06/05/23 Analyzed: 06/06/23

Boron 1.10 0.0100 mg/L 1.04 5.69 20

Matrix Spike (BGF0149-MS1)

Source: 2305662-01

Prepared: 06/05/23 Analyzed: 06/06/23

Boron 5.42 0.0100 mg/L 5.00 1.04 87.6 75-125

Matrix Spike Dup (BGF0149-MSD1)

Source: 2305662-01

Prepared: 06/05/23 Analyzed: 06/06/23

Boron 5.83 0.0100 mg/L 5.00 1.04 95.8 75-125 7.23 25

Batch BGF0504 - EPA 3050B

Blank (BGF0504-BLK1)

Prepared: 06/14/23 Analyzed: 06/19/23

Boron ND 0.0100 mg/L

LCS (BGF0504-BS1)

Prepared: 06/14/23 Analyzed: 06/19/23

Boron 5.67 0.0100 mg/L 5.00 113 80-120

Duplicate (BGF0504-DUP1)

Source: 2305547-01

Prepared: 06/14/23 Analyzed: 06/19/23

Boron 0.204 0.0100 mg/L 0.233 13.4 20

Matrix Spike (BGF0504-MS1)

Source: 2305547-01

Prepared: 06/14/23 Analyzed: 06/19/23

Boron 5.86 0.0100 mg/L 5.00 0.233 113 75-125

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L

Project Number: [none]
Project Manager: Ryan Finley

Reported:
01/22/24 16:47

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 BGF0504 - EPA 3050B

Matrix Spike Dup (BGF0504-MSD1) **Source: 2305547-01** Prepared: 06/14/23 Analyzed: 06/19/23

Boron	5.41	0.0100	mg/L	5.00	0.233	104	75-125	7.97	25
-------	------	--------	------	------	-------	-----	--------	------	----

Batch BGF0607 - EPA 3050B

Blank (BGF0607-BLK1) Prepared: 06/16/23 Analyzed: 06/18/23

Boron	ND	0.0100	mg/L
-------	----	--------	------

LCS (BGF0607-BS1) Prepared: 06/16/23 Analyzed: 06/18/23

Boron	5.82	0.0100	mg/L	5.00	116	80-120
-------	------	--------	------	------	-----	--------

Duplicate (BGF0607-DUP1) **Source: 2306290-01** Prepared: 06/16/23 Analyzed: 06/18/23

Boron	0.326	0.0100	mg/L	0.311	4.56	20
-------	-------	--------	------	-------	------	----

Matrix Spike (BGF0607-MS1) **Source: 2306290-01** Prepared: 06/16/23 Analyzed: 06/18/23

Boron	6.04	0.0100	mg/L	5.00	0.311	115	75-125
-------	------	--------	------	------	-------	-----	--------

Matrix Spike Dup (BGF0607-MSD1) **Source: 2306290-01** Prepared: 06/16/23 Analyzed: 06/18/23

Boron	5.73	0.0100	mg/L	5.00	0.311	108	75-125	5.22	25
-------	------	--------	------	------	-------	-----	--------	------	----

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: [none]
Project Manager: Ryan Finley

Reported:
01/22/24 16:47

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGF0155 - EPA 3050B

Blank (BGF0155-BLK1)

Prepared: 06/05/23 Analyzed: 06/07/23

Arsenic	ND	0.200	mg/kg wet
Barium	ND	0.400	"
Cadmium	ND	0.200	"
Copper	ND	0.400	"
Lead	ND	0.200	"
Nickel	ND	0.400	"
Selenium	ND	0.260	"
Silver	ND	0.0200	"
Zinc	ND	0.400	"

LCS (BGF0155-BS1)

Prepared: 06/05/23 Analyzed: 06/07/23

Arsenic	37.1	0.200	mg/kg wet	40.0	92.7	80-120
Barium	39.7	0.400	"	40.0	99.3	80-120
Cadmium	1.99	0.200	"	2.00	99.3	80-120
Copper	37.8	0.400	"	40.0	94.6	80-120
Lead	19.4	0.200	"	20.0	97.2	80-120
Nickel	37.2	0.400	"	40.0	92.9	80-120
Selenium	4.26	0.260	"	4.00	107	80-120
Silver	2.00	0.0200	"	2.00	99.8	80-120
Zinc	37.0	0.400	"	40.0	92.5	80-120

Duplicate (BGF0155-DUP1)

Source: 2304650-01

Prepared: 06/05/23 Analyzed: 06/07/23

Arsenic	0.664	0.200	mg/kg dry	0.706	6.18	20	
Barium	47.3	0.400	"	72.3	41.7	20	QR-03
Cadmium	0.103	0.200	"	0.204	65.6	20	QR-01
Copper	2.92	0.400	"	6.57	77.1	20	QR-03
Lead	8.30	0.200	"	58.3	150	20	QR-03
Nickel	1.42	0.400	"	1.83	25.3	20	QR-03
Selenium	ND	0.260	"	ND		20	
Silver	0.0253	0.0200	"	0.0355	33.6	20	QR-03
Zinc	16.8	0.400	"	34.6	69.0	20	QR-03

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L

Project Number: [none]
Project Manager: Ryan Finley

Reported:
01/22/24 16:47

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGF0155 - EPA 3050B

Matrix Spike (BGF0155-MS1)		Source: 2304650-01			Prepared: 06/05/23 Analyzed: 06/07/23						
Arsenic	15.7	0.200	mg/kg dry	48.6	0.706	30.7	75-125				QM-07
Barium	134	0.400	"	48.6	72.3	127	75-125				QM-07
Cadmium	2.75	0.200	"	2.43	0.204	105	75-125				
Copper	24.9	0.400	"	48.6	6.57	37.7	75-125				QM-07
Lead	298	0.200	"	24.3	58.3	985	75-125				QM-07
Nickel	17.0	0.400	"	48.6	1.83	31.2	75-125				QM-07
Selenium	4.58	0.260	"	4.86	ND	94.2	75-125				
Silver	2.46	0.0200	"	2.43	0.0355	99.6	75-125				
Zinc	57.8	0.400	"	48.6	34.6	47.8	75-125				QM-07

Matrix Spike Dup (BGF0155-MSD1)		Source: 2304650-01			Prepared: 06/05/23 Analyzed: 06/07/23						
Arsenic	15.8	0.200	mg/kg dry	48.6	0.706	31.0	75-125	0.903	25		QM-07
Barium	128	0.400	"	48.6	72.3	116	75-125	4.25	25		
Cadmium	2.63	0.200	"	2.43	0.204	99.8	75-125	4.41	25		
Copper	25.0	0.400	"	48.6	6.57	37.8	75-125	0.203	25		QM-07
Lead	289	0.200	"	24.3	58.3	947	75-125	3.13	25		QM-07
Nickel	17.1	0.400	"	48.6	1.83	31.3	75-125	0.314	25		QM-07
Selenium	4.50	0.260	"	4.86	ND	92.6	75-125	1.65	25		
Silver	2.38	0.0200	"	2.43	0.0355	96.3	75-125	3.32	25		
Zinc	57.5	0.400	"	48.6	34.6	47.2	75-125	0.482	25		QM-07

Batch BGF0484 - EPA 3050B

Blank (BGF0484-BLK1)		Prepared: 06/13/23 Analyzed: 06/19/23									
Arsenic	ND	0.200	mg/kg wet								
Barium	ND	0.400	"								

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L

Project Number: [none]
Project Manager: Ryan Finley

Reported:
01/22/24 16:47

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGF0484 - EPA 3050B

LCS (BGF0484-BS1)

Prepared: 06/13/23 Analyzed: 06/19/23

Arsenic	39.6	0.200	mg/kg wet	40.0		99.0	80-120			
Barium	39.6	0.400	"	40.0		99.1	80-120			

Duplicate (BGF0484-DUP1)

Source: 2305670-04

Prepared: 06/13/23 Analyzed: 06/19/23

Arsenic	0.821	0.200	mg/kg dry		0.730			11.8	20	
Barium	327	0.400	"		286			13.4	20	

Matrix Spike (BGF0484-MS1)

Source: 2305670-04

Prepared: 06/13/23 Analyzed: 06/19/23

Arsenic	12.1	0.200	mg/kg dry	51.6	0.730	22.1	75-125			QM-07
Barium	316	0.400	"	51.6	286	58.3	75-125			QM-07

Matrix Spike Dup (BGF0484-MSD1)

Source: 2305670-04

Prepared: 06/13/23 Analyzed: 06/19/23

Arsenic	11.7	0.200	mg/kg dry	51.6	0.730	21.2	75-125	3.93	25	QM-07
Barium	398	0.400	"	51.6	286	216	75-125	22.8	25	QM-07

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: [none]
Project Manager: Ryan Finley

Reported:
01/22/24 16:47

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BGF0262 - 3060A Mod

Blank (BGF0262-BLK1)

Prepared: 06/07/23 Analyzed: 06/08/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGF0262-BS1)

Prepared: 06/07/23 Analyzed: 06/08/23

Chromium, Hexavalent 21.3 0.30 mg/kg wet 25.0 85.2 80-120

Duplicate (BGF0262-DUP1)

Source: 2305670-01

Prepared: 06/07/23 Analyzed: 06/08/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGF0262-MS1)

Source: 2305670-01

Prepared: 06/07/23 Analyzed: 06/08/23

Chromium, Hexavalent 34.3 0.30 mg/kg dry 30.5 ND 112 75-125

Matrix Spike Dup (BGF0262-MSD1)

Source: 2305670-01

Prepared: 06/07/23 Analyzed: 06/08/23

Chromium, Hexavalent 36.3 0.30 mg/kg dry 30.5 ND 119 75-125 5.70 20

Batch BGF0733 - 3060A Mod

Blank (BGF0733-BLK1)

Prepared & Analyzed: 06/21/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGF0733-BS1)

Prepared & Analyzed: 06/21/23

Chromium, Hexavalent 23.6 0.30 mg/kg wet 25.0 94.4 80-120

Duplicate (BGF0733-DUP1)

Source: 2305670-18

Prepared & Analyzed: 06/21/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGF0733-MS1)

Source: 2305670-18

Prepared & Analyzed: 06/21/23

Chromium, Hexavalent 27.2 0.30 mg/kg dry 31.0 ND 87.6 75-125

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction. CO, 81501

Project: Wildhorse 16-13L

Project Number: [none]
Project Manager: Ryan Finley

Reported:
01/22/24 16:47

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BGF0733 - 3060A Mod

Matrix Spike Dup (BGF0733-MSD1)		Source: 2305670-18			Prepared & Analyzed: 06/21/23					
Chromium, Hexavalent	28.0	0.30	mg/kg dry	31.0	ND	90.2	75-125	2.92	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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L

Project Number: [none]
Project Manager: Ryan Finley

Reported:
01/22/24 16:47

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

Summit Scientific

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

Batch BGF0178 - General Preparation

Blank (BGF0178-BLK1)

Prepared: 06/06/23 Analyzed: 06/08/23

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

LCS (BGF0178-BS1)

Prepared: 06/06/23 Analyzed: 06/08/23

Calcium	6.02	0.0500	mg/L wet	5.00	120	70-130
Magnesium	5.93	0.0500	"	5.00	119	70-130
Sodium	5.88	0.0500	"	5.00	118	70-130

Batch BGF0467 - General Preparation

Blank (BGF0467-BLK1)

Prepared: 06/13/23 Analyzed: 06/17/23

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

LCS (BGF0467-BS1)

Prepared: 06/13/23 Analyzed: 06/17/23

Calcium	4.99	0.0500	mg/L wet	5.00	99.8	70-130
Magnesium	4.85	0.0500	"	5.00	96.9	70-130
Sodium	4.87	0.0500	"	5.00	97.3	70-130

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L

Project Number: [none]
Project Manager: Ryan Finley

Reported:
01/22/24 16:47

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 BGF0134 - General Preparation

Duplicate (BGF0134-DUP1)		Source: 2305670-01			Prepared & Analyzed: 06/05/23					
% Solids	82.9		%		81.8			1.29	20	

Batch BGF0469 - General Preparation

Duplicate (BGF0469-DUP1)		Source: 2305670-04			Prepared & Analyzed: 06/13/23					
% Solids	76.8		%		77.6			1.02	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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L

Project Number: [none]
Project Manager: Ryan Finley

Reported:
01/22/24 16:47

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 BGF0239 - General Preparation

Blank (BGF0239-BLK1)

Prepared & Analyzed: 06/07/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGF0239-BS1)

Prepared & Analyzed: 06/07/23

Specific Conductance (EC) 0.156 0.0100 mmhos/cm 0.150 104 95-105

Duplicate (BGF0239-DUP1)

Source: 2305670-01

Prepared & Analyzed: 06/07/23

Specific Conductance (EC) 2.21 0.0100 mmhos/cm 2.22 0.497 20

Batch BGF0496 - General Preparation

Blank (BGF0496-BLK1)

Prepared & Analyzed: 06/14/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGF0496-BS1)

Prepared & Analyzed: 06/14/23

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

Duplicate (BGF0496-DUP1)

Source: 2305670-04

Prepared & Analyzed: 06/14/23

Specific Conductance (EC) 1.08 0.0100 mmhos/cm 1.10 2.02 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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L

Project Number: [none]
Project Manager: Ryan Finley

Reported:
01/22/24 16:47

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 BGF0240 - General Preparation

LCS (BGF0240-BS1)

Prepared & Analyzed: 06/07/23

pH	9.03	pH Units	9.18	98.4	95-105
----	------	----------	------	------	--------

Duplicate (BGF0240-DUP1)

Source: 2305669-01

Prepared & Analyzed: 06/07/23

pH	7.81	pH Units	7.80	0.128	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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L

Project Number: [none]
Project Manager: Ryan Finley

Reported:
01/22/24 16:47

Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QR-01	Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
I-04	Sample was analyzed out of recommended holding time per clients request.
BTL-01	Sample supplied in improper container.
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

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

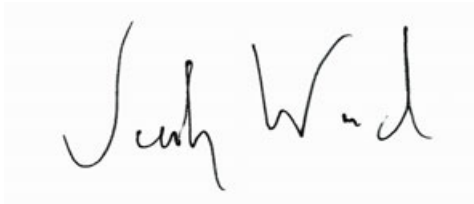
303.277.9310

August 11, 2023

Ryan Finley
Entrada Consulting Group
240 Mesa Avenue
Grand Junction., CO 81501
RE: Wildhorse 16-13L
Work Order #2308056

Enclosed are the results of analyses for samples received by Summit Scientific on 08/02/23 15:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Jacob Wood". The signature is written in a cursive, flowing style.

Jacob Wood For Paul Shrewsbury
President



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L

Project Number: 023-051
Project Manager: Ryan Finley

Reported:
08/11/23 09:22

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS17@3	2308056-01	Soil	08/01/23 13:30	08/02/23 15:20
SS18@3	2308056-02	Soil	08/01/23 13:35	08/02/23 15:20
SS19@3	2308056-03	Soil	08/01/23 13:40	08/02/23 15:20
SS20@3	2308056-04	Soil	08/01/23 13:45	08/02/23 15:20
SS21@3	2308056-05	Soil	08/01/23 13:50	08/02/23 15:20
SS22@3	2308056-06	Soil	08/01/23 13:55	08/02/23 15:20
SS23@3	2308056-07	Soil	08/01/23 14:00	08/02/23 15:20
SS24@3	2308056-08	Soil	08/01/23 13:35	08/02/23 15:20
SS25@3	2308056-09	Soil	08/01/23 13:40	08/02/23 15:20
SS26@3	2308056-10	Soil	08/01/23 13:45	08/02/23 15:20
SS27@3	2308056-11	Soil	08/01/23 13:50	08/02/23 15:20
SS28@3	2308056-12	Soil	08/01/23 13:55	08/02/23 15:20
SS29@3	2308056-13	Soil	08/01/23 14:00	08/02/23 15:20
BKG02@3	2308056-14	Soil	08/01/23 14:15	08/02/23 15:20
BKG02@5	2308056-15	Soil	08/01/23 14:25	08/02/23 15:20
BKG03@3	2308056-16	Soil	08/01/23 14:15	08/02/23 15:20
BKG03@5	2308056-17	Soil	08/01/23 14:25	08/02/23 15:20

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.

Client: <u>Entrada Consulting Group</u>		Send Data To:		Send Invoice To:	
Address: <u>ON File</u>		Project Manager: <u>Ryan Finley</u>		Company: <u>Entrada</u>	
City/State/Zip:		E-Mail: <u>rfinley@entradainc.com</u>		Project Name/Location: <u>wildhorse 16-13L</u>	
Phone: <u>303-907-0635</u>		Project Name: <u>wildhorse 16-13L</u>		AFE#:	
Sampler Name: <u>Ryan Finley + Nick Yord</u>		Project Number: <u>023-051</u>		PO/Billing Codes: <u>023-051</u>	
				Contact: <u>R. Finley, Stuart Hall</u>	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested				Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	EC	SAR	Boron	Barium	
1	SS17@3	8/1/23	1330	1									X	X	X	X	
2	SS18@3		1335														
3	SS19@3		1340														
4	SS20@3		1345														
5	SS21@3		1350														
6	SS22@3		1355														
7	SS23@3		1400														
8	SS24@3		1335														
9	SS25@3		1340														
10	SS26@3		1345														
11	SS27@3		1350														
12	SS28@3		1355														
13	SS29@3		1400														
14	BKG02@3		1415														
15	BKG02@5		1425														

Relinquished by: <u>[Signature]</u>	Date/Time: <u>8/2/23 1520</u>	Received by: <u>[Signature]</u>	Date/Time: <u>8/2/23 1520</u>	TAT Business Days	Field DO	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Standard	Field Turb.	
Temperature Upon Receipt: <u>13.7</u>	Corrected Temperature: <u>0</u>	IR gun #: <u>1</u>	HNO3 lot #:			

Client: <u>Entrada Consulting Group</u>		Send Data To:		Send Invoice To:	
Address: <u>ON File</u>		Project Manager: <u>Ryan Finley</u>		Company: <u>Entrada</u>	
City/State/Zip: <u>ON File</u>		E-Mail: <u>rfinley@entradainc.com</u>		Project Name/Location: <u>Wildhorse 16-13L</u>	
Phone: <u>303-907-0635</u>		Project Name: <u>Wildhorse 16-13L</u>		AFE#:	
Sampler Name: <u>Ryan Finley + Nick Yeard</u>		Project Number: <u>023-051</u>		PO/Billing Codes: <u>023-051</u>	
				Contact: <u>R. Finley + Stuart Hall</u>	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested				Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	Barium	EC	SAR	Boron	
1	BKG03@3	8/1/23	1415	1			X			X			X	X	X	X	
2	BKG03@5	↓	1425	1			X			X			X	X	X	X	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	

Relinquished by: <u>[Signature]</u>	Date/Time: <u>8/2/23 1520</u>	Received by: <u>[Signature]</u>	Date/Time: <u>8/2/23 1520</u>	TAT Business Days	Field DO	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Standard	X Field Turb.	
Temperature Upon Receipt: <u>13.7</u>	Corrected Temperature: <u>0</u>	IR gun #: <u>1</u>	HNO3 lot #:			

S₂

2/2

Sample Receipt Checklist

S2 Work Order# 2308056Client: Entrada Client Project ID: Wildhorse 16-132Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

Matrix (Check all that apply) Air ☐ Soil/Solid ☐ Water ☐ Other ☐Temp (°C) 137Thermometer # 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"/>	no ice
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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 checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input type="checkbox"/>	<input checked="" 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 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 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

AS

8/2/23



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
08/11/23 09:22

SS17@3
2308056-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/01/23 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	5.91	0.0100	mg/L	1	BGH0150	08/03/23	08/08/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/01/23 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	373	0.400	mg/kg dry	1	BGH0148	08/03/23	08/08/23	EPA 6020B	

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

Date Sampled: **08/01/23 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	41.2	0.0613	mg/L dry	1	BGH0194	08/04/23	08/08/23	EPA 6020B	
Magnesium	4.44	0.0613	"	"	"	"	"	"	
Sodium	1430	0.0613	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/01/23 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	56.5	0.00100	units	1	BGH0299	08/08/23	08/08/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/01/23 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.5		%	1	BGH0171	08/04/23	08/04/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
08/11/23 09:22

SS17@3
2308056-01 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/01/23 13:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	7.50	0.0100		mmhos/cm	1	BGH0260	08/07/23	08/07/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
08/11/23 09:22

SS18@3
2308056-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/01/23 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	1.75	0.0100	mg/L	1	BGH0150	08/03/23	08/08/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/01/23 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	434	0.400	mg/kg dry	1	BGH0148	08/03/23	08/08/23	EPA 6020B	

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

Date Sampled: **08/01/23 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	398	0.0669	mg/L dry	1	BGH0194	08/04/23	08/08/23	EPA 6020B	
Magnesium	49.5	0.0669	"	"	"	"	"	"	
Sodium	1860	0.0669	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/01/23 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	23.4	0.00100	units	1	BGH0299	08/08/23	08/08/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/01/23 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	74.8		%	1	BGH0171	08/04/23	08/04/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
08/11/23 09:22

SS18@3
2308056-02 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/01/23 13:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	14.2	0.0100		mmhos/cm	1	BGH0260	08/07/23	08/07/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
08/11/23 09:22

SS19@3
2308056-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/01/23 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.838	0.0100	mg/L	1	BGH0150	08/03/23	08/08/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/01/23 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	338	0.400	mg/kg dry	1	BGH0148	08/03/23	08/08/23	EPA 6020B	

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

Date Sampled: **08/01/23 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	98.2	0.0625	mg/L dry	1	BGH0194	08/04/23	08/08/23	EPA 6020B	
Magnesium	17.2	0.0625	"	"	"	"	"	"	
Sodium	131	0.0625	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/01/23 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.21	0.00100	units	1	BGH0299	08/08/23	08/08/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/01/23 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.0		%	1	BGH0171	08/04/23	08/04/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
08/11/23 09:22

SS19@3
2308056-03 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/01/23 13:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	1.62	0.0100		mmhos/cm	1	BGH0260	08/07/23	08/07/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
08/11/23 09:22

SS20@3
2308056-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/01/23 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.701	0.0100	mg/L	1	BGH0150	08/03/23	08/08/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/01/23 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	249	0.400	mg/kg dry	1	BGH0148	08/03/23	08/08/23	EPA 6020B	

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

Date Sampled: **08/01/23 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	155	0.0610	mg/L dry	1	BGH0194	08/04/23	08/08/23	EPA 6020B	
Magnesium	74.9	0.0610	"	"	"	"	"	"	
Sodium	237	0.0610	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/01/23 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.91	0.00100	units	1	BGH0299	08/08/23	08/08/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/01/23 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.0		%	1	BGH0171	08/04/23	08/04/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
08/11/23 09:22

SS20@3
2308056-04 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/01/23 13:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	5.36	0.0100		mmhos/cm	1	BGH0260	08/07/23	08/07/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
08/11/23 09:22

SS21@3
2308056-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/01/23 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.473	0.0100	mg/L	1	BGH0150	08/03/23	08/08/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/01/23 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	269	0.400	mg/kg dry	1	BGH0148	08/03/23	08/08/23	EPA 6020B	

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

Date Sampled: **08/01/23 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	123	0.0641	mg/L dry	1	BGH0194	08/04/23	08/08/23	EPA 6020B	
Magnesium	56.9	0.0641	"	"	"	"	"	"	
Sodium	142	0.0641	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/01/23 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.66	0.00100	units	1	BGH0299	08/08/23	08/08/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/01/23 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	78.0		%	1	BGH0171	08/04/23	08/04/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
08/11/23 09:22

SS21@3
2308056-05 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/01/23 13:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	3.02	0.0100		mmhos/cm	1	BGH0260	08/07/23	08/07/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
08/11/23 09:22

SS22@3
2308056-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/01/23 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.209	0.0100	mg/L	1	BGH0150	08/03/23	08/08/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/01/23 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	214	0.400	mg/kg dry	1	BGH0148	08/03/23	08/08/23	EPA 6020B	

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

Date Sampled: **08/01/23 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	48.6	0.0628	mg/L dry	1	BGH0194	08/04/23	08/08/23	EPA 6020B	
Magnesium	12.2	0.0628	"	"	"	"	"	"	
Sodium	30.9	0.0628	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/01/23 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.03	0.00100	units	1	BGH0299	08/08/23	08/08/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/01/23 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	79.6		%	1	BGH0171	08/04/23	08/04/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
08/11/23 09:22

SS22@3
2308056-06 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/01/23 13:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.589	0.0100		mmhos/cm	1	BGH0260	08/07/23	08/07/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
08/11/23 09:22

SS23@3
2308056-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/01/23 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	1.05	0.0100	mg/L	1	BGH0150	08/03/23	08/08/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/01/23 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	224	0.400	mg/kg dry	1	BGH0148	08/03/23	08/08/23	EPA 6020B	

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

Date Sampled: **08/01/23 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	553	0.0756	mg/L dry	1	BGH0194	08/04/23	08/08/23	EPA 6020B	
Magnesium	10.7	0.0756	"	"	"	"	"	"	
Sodium	200	0.0756	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/01/23 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.31	0.00100	units	1	BGH0299	08/08/23	08/08/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/01/23 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	66.1		%	1	BGH0171	08/04/23	08/04/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
08/11/23 09:22

SS23@3
2308056-07 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/01/23 14:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.692	0.0100		mmhos/cm	1	BGH0260	08/07/23	08/07/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
08/11/23 09:22

SS24@3
2308056-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/01/23 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	5.45	0.0100	mg/L	1	BGH0150	08/03/23	08/08/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/01/23 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	398	0.400	mg/kg dry	1	BGH0148	08/03/23	08/08/23	EPA 6020B	

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

Date Sampled: **08/01/23 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	26.6	0.0618	mg/L dry	1	BGH0194	08/04/23	08/08/23	EPA 6020B	
Magnesium	4.02	0.0618	"	"	"	"	"	"	
Sodium	1240	0.0618	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/01/23 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	59.2	0.00100	units	1	BGH0299	08/08/23	08/08/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/01/23 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.9		%	1	BGH0171	08/04/23	08/04/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
08/11/23 09:22

SS24@3
2308056-08 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/01/23 13:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	7.50	0.0100		mmhos/cm	1	BGH0260	08/07/23	08/07/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
08/11/23 09:22

SS25@3
2308056-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/01/23 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	4.36	0.0100	mg/L	1	BGH0150	08/03/23	08/08/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/01/23 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	247	0.400	mg/kg dry	1	BGH0148	08/03/23	08/08/23	EPA 6020B	

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

Date Sampled: **08/01/23 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	55.7	0.0623	mg/L dry	1	BGH0194	08/04/23	08/08/23	EPA 6020B	
Magnesium	2.95	0.0623	"	"	"	"	"	"	
Sodium	770	0.0623	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/01/23 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	27.2	0.00100	units	1	BGH0299	08/08/23	08/08/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/01/23 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.3		%	1	BGH0171	08/04/23	08/04/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
08/11/23 09:22

SS25@3
2308056-09 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/01/23 13:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	3.85	0.0100		mmhos/cm	1	BGH0260	08/07/23	08/07/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
08/11/23 09:22

SS26@3
2308056-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/01/23 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	4.22	0.0100	mg/L	1	BGH0150	08/03/23	08/08/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/01/23 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	740	0.400	mg/kg dry	1	BGH0148	08/03/23	08/08/23	EPA 6020B	

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

Date Sampled: **08/01/23 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	24.5	0.0610	mg/L dry	1	BGH0194	08/04/23	08/08/23	EPA 6020B	
Magnesium	6.40	0.0610	"	"	"	"	"	"	
Sodium	944	0.0610	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/01/23 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	43.9	0.00100	units	1	BGH0299	08/08/23	08/08/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/01/23 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.0		%	1	BGH0171	08/04/23	08/04/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
08/11/23 09:22

SS26@3
2308056-10 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/01/23 13:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	5.18	0.0100		mmhos/cm	1	BGH0260	08/07/23	08/07/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
08/11/23 09:22

SS27@3
2308056-11 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/01/23 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	1.07	0.0100	mg/L	1	BGH0150	08/03/23	08/08/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/01/23 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	329	0.400	mg/kg dry	1	BGH0148	08/03/23	08/08/23	EPA 6020B	

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

Date Sampled: **08/01/23 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	312	0.0623	mg/L dry	1	BGH0194	08/04/23	08/08/23	EPA 6020B	
Magnesium	102	0.0623	"	"	"	"	"	"	
Sodium	638	0.0623	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/01/23 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	8.02	0.00100	units	1	BGH0299	08/08/23	08/08/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/01/23 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.3		%	1	BGH0171	08/04/23	08/04/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
08/11/23 09:22

SS27@3
2308056-11 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/01/23 13:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	7.16	0.0100		mmhos/cm	1	BGH0260	08/07/23	08/07/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
08/11/23 09:22

SS28@3
2308056-12 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/01/23 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	1.91	0.0100	mg/L	1	BGH0150	08/03/23	08/08/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/01/23 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	194	0.400	mg/kg dry	1	BGH0148	08/03/23	08/08/23	EPA 6020B	

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

Date Sampled: **08/01/23 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	56.8	0.0590	mg/L dry	1	BGH0194	08/04/23	08/08/23	EPA 6020B	
Magnesium	22.0	0.0590	"	"	"	"	"	"	
Sodium	887	0.0590	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/01/23 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	25.3	0.00100	units	1	BGH0299	08/08/23	08/08/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/01/23 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.7		%	1	BGH0171	08/04/23	08/04/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
08/11/23 09:22

SS28@3
2308056-12 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/01/23 13:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	5.56	0.0100		mmhos/cm	1	BGH0260	08/07/23	08/07/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
08/11/23 09:22

SS29@3
2308056-13 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/01/23 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.419	0.0100	mg/L	1	BGH0150	08/03/23	08/08/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/01/23 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	253	0.400	mg/kg dry	1	BGH0148	08/03/23	08/08/23	EPA 6020B	

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

Date Sampled: **08/01/23 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	56.0	0.0686	mg/L dry	1	BGH0194	08/04/23	08/08/23	EPA 6020B	
Magnesium	16.3	0.0686	"	"	"	"	"	"	
Sodium	232	0.0686	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/01/23 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	7.02	0.00100	units	1	BGH0299	08/08/23	08/08/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/01/23 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	72.9		%	1	BGH0171	08/04/23	08/04/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
08/11/23 09:22

SS29@3
2308056-13 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/01/23 14:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	2.13	0.0100		mmhos/cm	1	BGH0260	08/07/23	08/07/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
08/11/23 09:22

BKG02@3
2308056-14 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/01/23 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.235	0.0100	mg/L	1	BGH0150	08/03/23	08/08/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/01/23 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	176	0.400	mg/kg dry	1	BGH0148	08/03/23	08/08/23	EPA 6020B	

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

Date Sampled: **08/01/23 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	67.1	0.0675	mg/L dry	1	BGH0194	08/04/23	08/08/23	EPA 6020B	
Magnesium	12.1	0.0675	"	"	"	"	"	"	
Sodium	16.8	0.0675	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/01/23 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.496	0.00100	units	1	BGH0299	08/08/23	08/08/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/01/23 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	74.0		%	1	BGH0171	08/04/23	08/04/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
08/11/23 09:22

BKG02@3
2308056-14 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/01/23 14:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.374	0.0100		mmhos/cm	1	BGH0260	08/07/23	08/07/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
08/11/23 09:22

BKG02@5
2308056-15 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/01/23 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.312	0.0100	mg/L	1	BGH0150	08/03/23	08/08/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/01/23 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	377	0.400	mg/kg dry	1	BGH0148	08/03/23	08/08/23	EPA 6020B	

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

Date Sampled: **08/01/23 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	35.6	0.0652	mg/L dry	1	BGH0194	08/04/23	08/08/23	EPA 6020B	
Magnesium	9.35	0.0652	"	"	"	"	"	"	
Sodium	16.0	0.0652	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/01/23 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.617	0.00100	units	1	BGH0299	08/08/23	08/08/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/01/23 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	76.7		%	1	BGH0171	08/04/23	08/04/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
08/11/23 09:22

BKG02@5
2308056-15 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/01/23 14:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.376	0.0100		mmhos/cm	1	BGH0260	08/07/23	08/07/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
08/11/23 09:22

BKG03@3
2308056-16 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/01/23 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.282	0.0100	mg/L	1	BGH0150	08/03/23	08/08/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/01/23 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	280	0.400	mg/kg dry	1	BGH0148	08/03/23	08/08/23	EPA 6020B	

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

Date Sampled: **08/01/23 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	328	0.0558	mg/L dry	1	BGH0194	08/04/23	08/08/23	EPA 6020B	
Magnesium	17.4	0.0558	"	"	"	"	"	"	
Sodium	22.7	0.0558	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/01/23 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.331	0.00100	units	1	BGH0299	08/08/23	08/08/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/01/23 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.6		%	1	BGH0171	08/04/23	08/04/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
08/11/23 09:22

BKG03@3
2308056-16 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/01/23 14:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.395	0.0100		mmhos/cm	1	BGH0260	08/07/23	08/07/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
08/11/23 09:22

BKG03@5
2308056-17 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/01/23 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.270	0.0100	mg/L	1	BGH0150	08/03/23	08/08/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/01/23 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	307	0.400	mg/kg dry	1	BGH0148	08/03/23	08/08/23	EPA 6020B	

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

Date Sampled: **08/01/23 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	41.8	0.0554	mg/L dry	1	BGH0194	08/04/23	08/08/23	EPA 6020B	
Magnesium	15.7	0.0554	"	"	"	"	"	"	
Sodium	85.4	0.0554	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/01/23 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.86	0.00100	units	1	BGH0299	08/08/23	08/08/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/01/23 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.2		%	1	BGH0171	08/04/23	08/04/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
08/11/23 09:22

BKG03@5
2308056-17 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/01/23 14:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.989	0.0100		mmhos/cm	1	BGH0260	08/07/23	08/07/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L

Project Number: 023-051
Project Manager: Ryan Finley

Reported:
08/11/23 09:22

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 BGH0150 - EPA 3050B

Blank (BGH0150-BLK1)

Prepared: 08/03/23 Analyzed: 08/08/23

Boron	ND	0.0100	mg/L
-------	----	--------	------

LCS (BGH0150-BS1)

Prepared: 08/03/23 Analyzed: 08/08/23

Boron	6.00	0.0100	mg/L	5.00	120	80-120
-------	------	--------	------	------	-----	--------

Duplicate (BGH0150-DUP1)

Source: 2308050-01

Prepared: 08/03/23 Analyzed: 08/08/23

Boron	0.126	0.0100	mg/L	0.166	27.1	20	QR-04
-------	-------	--------	------	-------	------	----	-------

Matrix Spike (BGH0150-MS1)

Source: 2308050-01

Prepared: 08/03/23 Analyzed: 08/08/23

Boron	5.80	0.0100	mg/L	5.00	0.166	113	75-125
-------	------	--------	------	------	-------	-----	--------

Matrix Spike Dup (BGH0150-MSD1)

Source: 2308050-01

Prepared: 08/03/23 Analyzed: 08/08/23

Boron	5.59	0.0100	mg/L	5.00	0.166	108	75-125	3.68	25
-------	------	--------	------	------	-------	-----	--------	------	----

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
08/11/23 09:22

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGH0148 - EPA 3050B

Blank (BGH0148-BLK1)

Prepared: 08/03/23 Analyzed: 08/08/23

Barium ND 0.400 mg/kg wet

LCS (BGH0148-BS1)

Prepared: 08/03/23 Analyzed: 08/08/23

Barium 37.7 0.400 mg/kg wet 40.0 94.2 80-120

Duplicate (BGH0148-DUP1)

Source: 2308050-01

Prepared: 08/03/23 Analyzed: 08/08/23

Barium 18.3 0.400 mg/kg dry 24.0 27.1 20 QR-04

Matrix Spike (BGH0148-MS1)

Source: 2308050-01

Prepared: 08/03/23 Analyzed: 08/08/23

Barium 71.7 0.400 mg/kg dry 50.7 24.0 94.1 75-125

Matrix Spike Dup (BGH0148-MSD1)

Source: 2308050-01

Prepared: 08/03/23 Analyzed: 08/08/23

Barium 56.7 0.400 mg/kg dry 50.7 24.0 64.4 75-125 23.4 25 QM-01

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
08/11/23 09:22

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 BGH0194 - General Preparation

Blank (BGH0194-BLK1)

Prepared: 08/04/23 Analyzed: 08/08/23

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

LCS (BGH0194-BS1)

Prepared: 08/04/23 Analyzed: 08/08/23

Calcium	6.23	0.0500	mg/L wet	5.00	125	70-130
Magnesium	5.73	0.0500	"	5.00	115	70-130
Sodium	5.81	0.0500	"	5.00	116	70-130

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction. CO, 81501

Project: Wildhorse 16-13L

Project Number: 023-051
Project Manager: Ryan Finley

Reported:
08/11/23 09:22

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 BGH0171 - General Preparation

Duplicate (BGH0171-DUP1)

Source: 2308050-01

Prepared & Analyzed: 08/04/23

% Solids	80.9	%	78.9	2.40	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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
08/11/23 09:22

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 BGH0260 - General Preparation

Blank (BGH0260-BLK1)

Prepared & Analyzed: 08/07/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGH0260-BS1)

Prepared & Analyzed: 08/07/23

Specific Conductance (EC) 0.152 0.0100 mmhos/cm 0.150 101 95-105

Duplicate (BGH0260-DUP1)

Source: 2308050-01

Prepared & Analyzed: 08/07/23

Specific Conductance (EC) 0.187 0.0100 mmhos/cm 0.188 0.906 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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction. CO, 81501

Project: Wildhorse 16-13L

Project Number: 023-051
Project Manager: Ryan Finley

Reported:
08/11/23 09:22

Notes and Definitions

QR-04	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-01	The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
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

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

September 29, 2023

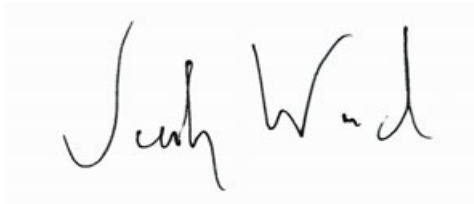
Ryan Finley
Entrada Consulting Group
240 Mesa Avenue
Grand Junction., CO 81501

RE: Wildhorse 16-13L

Work Order #2309352

Enclosed are the results of analyses for samples received by Summit Scientific on 09/20/23 15:07. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Jacob Wood". The signature is written in a cursive, flowing style.

Jacob Wood For Paul Shrewsbury
President



Entrada Consulting Group
240 Mesa Avenue
Grand Junction. CO, 81501

Project: Wildhorse 16-13L

Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS30@4	2309352-01	Soil	09/19/23 10:45	09/20/23 15:07
SS31@3	2309352-02	Soil	09/19/23 10:48	09/20/23 15:07
SS32@3	2309352-03	Soil	09/19/23 10:51	09/20/23 15:07
SS33@4	2309352-04	Soil	09/19/23 10:55	09/20/23 15:07
SS34@3	2309352-05	Soil	09/19/23 10:58	09/20/23 15:07
SS35@3	2309352-06	Soil	09/19/23 11:00	09/20/23 15:07
SS36@4	2309352-07	Soil	09/19/23 11:05	09/20/23 15:07
SS37@3	2309352-08	Soil	09/19/23 11:08	09/20/23 15:07
SS38@3	2309352-09	Soil	09/19/23 11:11	09/20/23 15:07
SS39@4	2309352-10	Soil	09/19/23 11:15	09/20/23 15:07
SS40@3	2309352-11	Soil	09/19/23 11:08	09/20/23 15:07
SS41@3	2309352-12	Soil	09/19/23 11:21	09/20/23 15:07
SS42@4	2309352-13	Soil	09/19/23 11:25	09/20/23 15:07
SS43@3	2309352-14	Soil	09/19/23 11:28	09/20/23 15:07
SS44@3	2309352-15	Soil	09/19/23 11:31	09/20/23 15:07
SS45@4	2309352-16	Soil	09/19/23 11:35	09/20/23 15:07
SS46@3	2309352-17	Soil	09/19/23 11:38	09/20/23 15:07
SS47@3	2309352-18	Soil	09/19/23 11:41	09/20/23 15:07
SS48@4	2309352-19	Soil	09/19/23 11:45	09/20/23 15:07
SS49@3	2309352-20	Soil	09/19/23 11:48	09/20/23 15:07
SS50@3	2309352-21	Soil	09/19/23 11:51	09/20/23 15:07
SS51@4	2309352-22	Soil	09/19/23 11:55	09/20/23 15:07
SS52@3	2309352-23	Soil	09/19/23 11:58	09/20/23 15:07
SS53@3	2309352-24	Soil	09/19/23 12:01	09/20/23 15:07
SS54@4	2309352-25	Soil	09/19/23 12:15	09/20/23 15:07
SS55@3	2309352-26	Soil	09/19/23 12:18	09/20/23 15:07
SS56@3	2309352-27	Soil	09/19/23 12:21	09/20/23 15:07

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L

Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS57@4	2309352-28	Soil	09/19/23 13:00	09/20/23 15:07
SS58@3	2309352-29	Soil	09/19/23 13:03	09/20/23 15:07
SS59@3	2309352-30	Soil	09/19/23 13:05	09/20/23 15:07
SS60@4	2309352-31	Soil	09/19/23 13:15	09/20/23 15:07
SS61@3	2309352-32	Soil	09/19/23 13:18	09/20/23 15:07
SS62@3	2309352-33	Soil	09/19/23 13:21	09/20/23 15:07

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

4653 Table Mountain Drive
Golden, CO 80403
303-277-9310

Lab ID	Page 1 of 3
2309352-1	

Client: <u>Entrada Consulting</u>		Send Data To:		Send Invoice To:	
Address: <u>ON File</u>		Project Manager: <u>R. Finley</u>		Company: <u>Entrada</u>	
City/State/Zip:		E-Mail: <u>rfinley@entradainc.com</u>		Project Name/Location: <u>wildhorse 16-13L</u>	
Phone: <u>303-907-8635</u>		Project Name: <u>wildhorse 16-13L</u>		AFE#:	
Sampler Name: <u>R. Finley</u>		Project Number: <u>023-051</u>		PO/Billing Codes: <u>023-051</u>	
				Contact: <u>Stuart Hall</u>	

					Preservative				Matrix			Analysis Requested				Special Instructions		
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	EC	SAR	Boron	Barium		
1	SS30@4	9/19/23	1045	1			X			X			X	X	X	X		
2	SS31@3		1048															
3	SS32@3		1051															
4	SS33@4		1055															
5	SS34@3		1058															
6	SS35@3		1100															
7	SS36@4		1105															
8	SS37@3		1108															
9	SS38@3		1111															
10	SS39@4		1115															
11	SS40@3		1118															
12	SS41@3		1121															
13	SS42@4		1125															
14	SS43@3		1128															
15	SS44@3		1131															

Relinquished by: <u>[Signature]</u>	Date/Time: <u>9/20/23 1507</u>	Received by: <u>[Signature]</u>	Date/Time: <u>9/20/23 15:07</u>	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: <u>26</u>	Corrected Temperature	IR gun #: <u>2</u>	HNO3 lot #:			

SUMMIT SCIENTIFIC

4653 Table Mountain Drive
Golden, CO 80403
303-277-9310

Lab ID	Page 2 of 3
2309352.2	

Client: <u>Entrada Consulting Group</u>		Send Data To:		Send Invoice To:	
Address: <u>ON File</u>		Project Manager: <u>R. Finley</u>		Company: <u>Entrada</u>	
City/State/Zip:		E-Mail: <u>rfinley@entradainc.com</u>		Project Name/Location: <u>wildhorse 16-13L</u>	
Phone: <u>303-907-0635</u>		Project Name: <u>wildhorse 16-13L</u>		AFE#:	
Sampler Name: <u>R. Finley</u>		Project Number: <u>023-051</u>		PO/Billing Codes:	
				Contact: <u>Stuart Hall</u>	

					Preservative				Matrix				Analysis Requested				Special Instructions	
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	EC	SAR	Boron	Barium		
1	SS45@4	9/19/23	1135	1			X			X			X	X	X	X		
2	SS46@3		1138															
3	SS47@3		1141															
4	SS48@4		1145															
5	SS49@3		1148															
6	SS50@3		1151															
7	SS51@4		1155															
8	SS52@3		1158															
9	SS53@3		1201															
10	SS54@4		1215															
11	SS55@3		1218															
12	SS56@3		1221															
13	SS57@4		1300															
14	SS58@3		1303															
15	SS59@3		1305															

Relinquished by: <u>R. Finley</u>	Date/Time: <u>9/20/23 15:07</u>	Received by: <u>Stuart Hall</u>	Date/Time: <u>9/20/23 15:07</u>	TAT Business Days	Field DO	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Standard	X Field Turb.	
Temperature Upon Receipt: <u>26</u>	Corrected Temperature	IR gun #:	<u>2</u>	HNO3 lot #:		

SUMMIT SCIENTIFIC

4653 Table Mountain Drive
Golden, CO 80403
303-277-9310

Lab ID	Page 3 of 3
2309352.3	

Client: <u>Entrada</u>		Send Data To:		Send Invoice To:	
Address:		Project Manager: <u>R. Finley</u>		Company: <u>Entrada</u>	
City/State/Zip: <u>ON File</u>		E-Mail: <u>rfinley@entradainc.com</u>		Project Name/Location: <u>wildhorse 16-13L</u>	
Phone: <u>303-907-0635</u>		Project Name: <u>wildhorse 16-13L</u>		AFE#:	
Sampler Name: <u>R. Finley</u>		Project Number: <u>023-051</u>		PO/Billing Codes: <u>023-051</u>	
				Contact: <u>Stuart Hall</u>	

					Preservative				Matrix			Analysis Requested				Special Instructions				
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other _____	Water	Soil	Air-Canister #	Other _____	EC	SAR	Boron	Barium				
1	SS6004	9/19/23	1315	1			X			X			X	X	X	X				
2	SS6103	↓	1318	↓			↓			↓			↓	↓	↓	↓				
3	SS6203	↓	1321	↓			↓			↓			↓	↓	↓	↓				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				

Relinquished by: <u>R. Finley</u>	Date/Time: <u>9/20/23 1510</u>	Received by: <u>John W. Hall</u>	Date/Time: <u>9/20/23 15:10</u>	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	X Field Turb.	
Temperature Upon Receipt: <u>2.6</u>	Corrected Temperature	IR gun #: <u>2</u>	HNO3 lot #:			

S₂

3/3

Sample Receipt Checklist

S2 Work Order# 2309352

Client: Entrada Client Project ID: Wildhorse 16-13LShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐
☒ ☐ ☐ ☐ ☐
Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 2.6Thermometer # 2

	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"/>	on ice
If custody seals are present, are they intact? ⁽¹⁾	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
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 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 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.				

V. h. W. h.
Custodian Printed Name

9/20/2023 15:07
Date/Time



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

SS30@4
2309352-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/19/23 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.123	0.0100	mg/L	1	BGI0721	09/25/23	09/25/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/19/23 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	235	0.400	mg/kg dry	1	BGI0726	09/25/23	09/27/23	EPA 6020B	

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

Date Sampled: **09/19/23 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	58.2	0.0539	mg/L dry	1	BGI0703	09/22/23	09/27/23	EPA 6020B	
Magnesium	6.34	0.0539	"	"	"	"	"	"	
Sodium	4.76	0.0539	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/19/23 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.158	0.00100	units	1	BGI0882	09/28/23	09/28/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/19/23 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.8		%	1	BGI0757	09/25/23	09/25/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

SS30@4
2309352-01 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/19/23 10:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.299	0.0100		mmhos/cm	1	BGI0788	09/26/23	09/26/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

SS31@3
2309352-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/19/23 10:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.113	0.0100	mg/L	1	BGI0721	09/25/23	09/25/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/19/23 10:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	167	0.400	mg/kg dry	1	BGI0726	09/25/23	09/27/23	EPA 6020B	

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

Date Sampled: **09/19/23 10:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	53.3	0.0540	mg/L dry	1	BGI0703	09/22/23	09/27/23	EPA 6020B	
Magnesium	5.24	0.0540	"	"	"	"	"	"	
Sodium	4.21	0.0540	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/19/23 10:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.147	0.00100	units	1	BGI0882	09/28/23	09/28/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/19/23 10:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.6		%	1	BGI0757	09/25/23	09/25/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

SS31@3
2309352-02 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/19/23 10:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.276	0.0100		mmhos/cm	1	BGI0788	09/26/23	09/26/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

SS32@3
2309352-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/19/23 10:51**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.158	0.0100	mg/L	1	BGI0721	09/25/23	09/25/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/19/23 10:51**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	185	0.400	mg/kg dry	1	BGI0726	09/25/23	09/27/23	EPA 6020B	

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

Date Sampled: **09/19/23 10:51**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	56.3	0.0540	mg/L dry	1	BGI0703	09/22/23	09/27/23	EPA 6020B	
Magnesium	5.53	0.0540	"	"	"	"	"	"	
Sodium	6.46	0.0540	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/19/23 10:51**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.220	0.00100	units	1	BGI0882	09/28/23	09/28/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/19/23 10:51**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.5		%	1	BGI0757	09/25/23	09/25/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

SS32@3
2309352-03 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/19/23 10:51**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.305	0.0100		mmhos/cm	1	BGI0788	09/26/23	09/26/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

SS33@4
2309352-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/19/23 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.445	0.0100	mg/L	1	BGI0721	09/25/23	09/25/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/19/23 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	470	0.400	mg/kg dry	1	BGI0726	09/25/23	09/27/23	EPA 6020B	

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

Date Sampled: **09/19/23 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	301	0.0593	mg/L dry	1	BGI0703	09/22/23	09/27/23	EPA 6020B	
Magnesium	10.1	0.0593	"	"	"	"	"	"	
Sodium	57.4	0.0593	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/19/23 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.887	0.00100	units	1	BGI0882	09/28/23	09/28/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/19/23 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.3		%	1	BGI0757	09/25/23	09/25/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

SS33@4
2309352-04 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/19/23 10:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.279	0.0100		mmhos/cm	1	BGI0788	09/26/23	09/26/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

SS34@3
2309352-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/19/23 10:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.194	0.0100	mg/L	1	BGI0721	09/25/23	09/25/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/19/23 10:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	342	0.400	mg/kg dry	1	BGI0726	09/25/23	09/27/23	EPA 6020B	

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

Date Sampled: **09/19/23 10:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	77.6	0.0567	mg/L dry	1	BGI0703	09/22/23	09/27/23	EPA 6020B	
Magnesium	18.1	0.0567	"	"	"	"	"	"	
Sodium	36.0	0.0567	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/19/23 10:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.956	0.00100	units	1	BGI0882	09/28/23	09/28/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/19/23 10:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.1		%	1	BGI0757	09/25/23	09/25/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

SS34@3
2309352-05 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/19/23 10:58**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	1.04	0.0100		mmhos/cm	1	BGI0788	09/26/23	09/26/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

SS35@3
2309352-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/19/23 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.222	0.0100	mg/L	1	BGI0721	09/25/23	09/25/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/19/23 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	342	0.400	mg/kg dry	1	BGI0726	09/25/23	09/27/23	EPA 6020B	

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

Date Sampled: **09/19/23 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	93.0	0.0588	mg/L dry	1	BGI0703	09/22/23	09/27/23	EPA 6020B	
Magnesium	6.76	0.0588	"	"	"	"	"	"	
Sodium	18.1	0.0588	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/19/23 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.488	0.00100	units	1	BGI0882	09/28/23	09/28/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/19/23 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.0		%	1	BGI0757	09/25/23	09/25/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

SS35@3
2309352-06 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/19/23 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.349	0.0100		mmhos/cm	1	BGI0788	09/26/23	09/26/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

SS36@4
2309352-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/19/23 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.274	0.0100	mg/L	1	BGI0721	09/25/23	09/25/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/19/23 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	349	0.400	mg/kg dry	1	BGI0726	09/25/23	09/27/23	EPA 6020B	

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

Date Sampled: **09/19/23 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	561	0.0593	mg/L dry	1	BGI0703	09/22/23	09/27/23	EPA 6020B	
Magnesium	13.2	0.0593	"	"	"	"	"	"	
Sodium	49.4	0.0593	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/19/23 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.563	0.00100	units	1	BGI0882	09/28/23	09/28/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/19/23 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.3		%	1	BGI0757	09/25/23	09/25/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

SS36@4
2309352-07 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/19/23 11:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.300	0.0100		mmhos/cm	1	BGI0788	09/26/23	09/26/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

SS37@3
2309352-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/19/23 11:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0905	0.0100	mg/L	1	BGI0721	09/25/23	09/25/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/19/23 11:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	385	0.400	mg/kg dry	1	BGI0726	09/25/23	09/27/23	EPA 6020B	

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

Date Sampled: **09/19/23 11:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	110	0.0583	mg/L dry	1	BGI0703	09/22/23	09/27/23	EPA 6020B	
Magnesium	5.79	0.0583	"	"	"	"	"	"	
Sodium	27.7	0.0583	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/19/23 11:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.698	0.00100	units	1	BGI0882	09/28/23	09/28/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/19/23 11:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.7		%	1	BGI0757	09/25/23	09/25/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

SS37@3
2309352-08 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/19/23 11:08**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.359	0.0100		mmhos/cm	1	BGI0788	09/26/23	09/26/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

SS38@3
2309352-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/19/23 11:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.122	0.0100	mg/L	1	BGI0721	09/25/23	09/25/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/19/23 11:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	370	0.400	mg/kg dry	1	BGI0726	09/25/23	09/27/23	EPA 6020B	

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

Date Sampled: **09/19/23 11:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	263	0.0587	mg/L dry	1	BGI0703	09/22/23	09/27/23	EPA 6020B	
Magnesium	8.28	0.0587	"	"	"	"	"	"	
Sodium	13.9	0.0587	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/19/23 11:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.230	0.00100	units	1	BGI0882	09/28/23	09/28/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/19/23 11:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.2		%	1	BGI0757	09/25/23	09/25/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

SS38@3
2309352-09 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/19/23 11:11**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.218	0.0100		mmhos/cm	1	BGI0788	09/26/23	09/26/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

SS39@4
2309352-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/19/23 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.628	0.0100	mg/L	1	BGI0721	09/25/23	09/25/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/19/23 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	337	0.400	mg/kg dry	1	BGI0726	09/25/23	09/27/23	EPA 6020B	

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

Date Sampled: **09/19/23 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	188	0.0588	mg/L dry	1	BGI0703	09/22/23	09/27/23	EPA 6020B	
Magnesium	41.0	0.0588	"	"	"	"	"	"	
Sodium	370	0.0588	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/19/23 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.36	0.00100	units	1	BGI0882	09/28/23	09/28/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/19/23 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.0		%	1	BGI0757	09/25/23	09/25/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

SS39@4
2309352-10 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/19/23 11:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	4.01	0.0100		mmhos/cm	1	BGI0788	09/26/23	09/26/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

SS40@3
2309352-11 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/19/23 11:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0270	0.0100	mg/L	1	BGI0721	09/25/23	09/25/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/19/23 11:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	430	0.400	mg/kg dry	1	BGI0726	09/25/23	09/27/23	EPA 6020B	

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

Date Sampled: **09/19/23 11:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	193	0.0617	mg/L dry	1	BGI0703	09/22/23	09/27/23	EPA 6020B	
Magnesium	37.7	0.0617	"	"	"	"	"	"	
Sodium	44.0	0.0617	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/19/23 11:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.757	0.00100	units	1	BGI0882	09/28/23	09/28/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/19/23 11:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.0		%	1	BGI0757	09/25/23	09/25/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

SS40@3
2309352-11 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/19/23 11:08**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	1.98	0.0100		mmhos/cm	1	BGI0788	09/26/23	09/26/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

SS41@3
2309352-12 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/19/23 11:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.730	0.0100	mg/L	1	BGI0721	09/25/23	09/25/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/19/23 11:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	518	0.400	mg/kg dry	1	BGI0726	09/25/23	09/27/23	EPA 6020B	

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

Date Sampled: **09/19/23 11:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	82.4	0.0602	mg/L dry	1	BGI0703	09/22/23	09/27/23	EPA 6020B	
Magnesium	12.5	0.0602	"	"	"	"	"	"	
Sodium	487	0.0602	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/19/23 11:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	13.2	0.00100	units	1	BGI0882	09/28/23	09/28/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/19/23 11:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.1		%	1	BGI0757	09/25/23	09/25/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

SS41@3
2309352-12 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/19/23 11:21**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	3.46	0.0100		mmhos/cm	1	BGI0788	09/26/23	09/26/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

SS42@4
2309352-13 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/19/23 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	2.39	0.0100	mg/L	1	BGI0721	09/25/23	09/25/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/19/23 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	424	0.400	mg/kg dry	1	BGI0726	09/25/23	09/27/23	EPA 6020B	

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

Date Sampled: **09/19/23 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	41.8	0.0600	mg/L dry	1	BGI0703	09/22/23	09/27/23	EPA 6020B	
Magnesium	6.21	0.0600	"	"	"	"	"	"	
Sodium	733	0.0600	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/19/23 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	28.0	0.00100	units	1	BGI0882	09/28/23	09/28/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/19/23 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.3		%	1	BGI0771	09/26/23	09/26/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

SS42@4
2309352-13 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/19/23 11:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	4.37	0.0100		mmhos/cm	1	BGI0788	09/26/23	09/26/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

SS43@3
2309352-14 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/19/23 11:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.171	0.0100	mg/L	1	BGI0721	09/25/23	09/25/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/19/23 11:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	401	0.400	mg/kg dry	1	BGI0726	09/25/23	09/27/23	EPA 6020B	

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

Date Sampled: **09/19/23 11:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	167	0.0589	mg/L dry	1	BGI0703	09/22/23	09/27/23	EPA 6020B	
Magnesium	24.3	0.0589	"	"	"	"	"	"	
Sodium	196	0.0589	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/19/23 11:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.74	0.00100	units	1	BGI0882	09/28/23	09/28/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/19/23 11:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.9		%	1	BGI0771	09/26/23	09/26/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

SS43@3
2309352-14 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/19/23 11:28**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	3.15	0.0100		mmhos/cm	1	BGI0788	09/26/23	09/26/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

SS44@3
2309352-15 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/19/23 11:31**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	5.99	0.0100	mg/L	1	BGI0721	09/25/23	09/25/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/19/23 11:31**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	313	0.400	mg/kg dry	1	BGI0726	09/25/23	09/27/23	EPA 6020B	

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

Date Sampled: **09/19/23 11:31**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	21.3	0.0602	mg/L dry	1	BGI0703	09/22/23	09/27/23	EPA 6020B	
Magnesium	2.56	0.0602	"	"	"	"	"	"	
Sodium	1340	0.0602	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/19/23 11:31**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	73.0	0.00100	units	1	BGI0882	09/28/23	09/28/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/19/23 11:31**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.1		%	1	BGI0771	09/26/23	09/26/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

SS44@3
2309352-15 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/19/23 11:31**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	5.63	0.0100		mmhos/cm	1	BGI0788	09/26/23	09/26/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

SS45@4
2309352-16 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/19/23 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	1.61	0.0100	mg/L	1	BGI0721	09/25/23	09/25/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/19/23 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	316	0.400	mg/kg dry	1	BGI0726	09/25/23	09/27/23	EPA 6020B	

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

Date Sampled: **09/19/23 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	69.7	0.0594	mg/L dry	1	BGI0703	09/22/23	09/27/23	EPA 6020B	
Magnesium	12.3	0.0594	"	"	"	"	"	"	
Sodium	521	0.0594	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/19/23 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	15.1	0.00100	units	1	BGI0882	09/28/23	09/28/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/19/23 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.2		%	1	BGI0771	09/26/23	09/26/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

SS45@4
2309352-16 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/19/23 11:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	3.55	0.0100		mmhos/cm	1	BGI0788	09/26/23	09/26/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

SS46@3
2309352-17 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/19/23 11:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	4.92	0.0100	mg/L	1	BGI0721	09/25/23	09/25/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/19/23 11:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	337	0.400	mg/kg dry	1	BGI0726	09/25/23	09/27/23	EPA 6020B	

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

Date Sampled: **09/19/23 11:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	17.9	0.0590	mg/L dry	1	BGI0703	09/22/23	09/27/23	EPA 6020B	
Magnesium	2.03	0.0590	"	"	"	"	"	"	
Sodium	443	0.0590	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/19/23 11:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	26.5	0.00100	units	1	BGI0882	09/28/23	09/28/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/19/23 11:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.8		%	1	BGI0771	09/26/23	09/26/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

SS46@3
2309352-17 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/19/23 11:38**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	3.95	0.0100		mmhos/cm	1	BGI0788	09/26/23	09/26/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

SS47@3
2309352-18 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/19/23 11:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	1.89	0.0100	mg/L	1	BGI0721	09/25/23	09/25/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/19/23 11:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	426	0.400	mg/kg dry	1	BGI0726	09/25/23	09/27/23	EPA 6020B	

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

Date Sampled: **09/19/23 11:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	49.3	0.0602	mg/L dry	1	BGI0703	09/22/23	09/27/23	EPA 6020B	
Magnesium	7.44	0.0602	"	"	"	"	"	"	
Sodium	712	0.0602	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/19/23 11:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	25.0	0.00100	units	1	BGI0882	09/28/23	09/28/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/19/23 11:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.1		%	1	BGI0771	09/26/23	09/26/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

SS47@3
2309352-18 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/19/23 11:41**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	3.93	0.0100		mmhos/cm	1	BGI0788	09/26/23	09/26/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

SS48@4
2309352-19 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/19/23 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	1.86	0.0100	mg/L	1	BGI0721	09/25/23	09/25/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/19/23 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	290	0.400	mg/kg dry	1	BGI0726	09/25/23	09/27/23	EPA 6020B	

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

Date Sampled: **09/19/23 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	54.9	0.0585	mg/L dry	1	BGI0703	09/22/23	09/27/23	EPA 6020B	
Magnesium	13.3	0.0585	"	"	"	"	"	"	
Sodium	551	0.0585	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/19/23 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	17.3	0.00100	units	1	BGI0882	09/28/23	09/28/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/19/23 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.5		%	1	BGI0771	09/26/23	09/26/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

SS48@4
2309352-19 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/19/23 11:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	3.74	0.0100		mmhos/cm	1	BGI0788	09/26/23	09/26/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

SS49@3
2309352-20 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/19/23 11:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	1.96	0.0100	mg/L	1	BGI0721	09/25/23	09/25/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/19/23 11:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	551	0.400	mg/kg dry	1	BGI0726	09/25/23	09/27/23	EPA 6020B	

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

Date Sampled: **09/19/23 11:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	34.1	0.0588	mg/L dry	1	BGI0703	09/22/23	09/27/23	EPA 6020B	
Magnesium	4.48	0.0588	"	"	"	"	"	"	
Sodium	738	0.0588	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/19/23 11:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	31.5	0.00100	units	1	BGI0882	09/28/23	09/28/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/19/23 11:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.0		%	1	BGI0771	09/26/23	09/26/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

SS49@3
2309352-20 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/19/23 11:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	4.41	0.0100		mmhos/cm	1	BGI0788	09/26/23	09/26/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

SS50@3
2309352-21 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/19/23 11:51**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	1.29	0.0100	mg/L	1	BGI0723	09/25/23	09/27/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/19/23 11:51**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	291	0.400	mg/kg dry	1	BGI0727	09/25/23	09/25/23	EPA 6020B	

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

Date Sampled: **09/19/23 11:51**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	60.1	0.0586	mg/L dry	1	BGI0713	09/22/23	09/26/23	EPA 6020B	
Magnesium	10.2	0.0586	"	"	"	"	"	"	
Sodium	768	0.0586	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/19/23 11:51**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	24.1	0.00100	units	1	BGI0843	09/27/23	09/27/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/19/23 11:51**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.3		%	1	BGI0771	09/26/23	09/26/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

SS50@3
2309352-21 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/19/23 11:51**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	4.31	0.0100		mmhos/cm	1	BGI0729	09/25/23	09/25/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

SS51@4
2309352-22 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/19/23 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.469	0.0100	mg/L	1	BGI0723	09/25/23	09/27/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/19/23 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	341	0.400	mg/kg dry	1	BGI0727	09/25/23	09/25/23	EPA 6020B	

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

Date Sampled: **09/19/23 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	235	0.0592	mg/L dry	1	BGI0713	09/22/23	09/26/23	EPA 6020B	
Magnesium	81.2	0.0592	"	"	"	"	"	"	
Sodium	190	0.0592	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/19/23 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.72	0.00100	units	1	BGI0843	09/27/23	09/27/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/19/23 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.5		%	1	BGI0772	09/26/23	09/26/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

SS51@4
2309352-22 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/19/23 11:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	3.25	0.0100		mmhos/cm	1	BGI0729	09/25/23	09/25/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

SS52@3
2309352-23 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/19/23 11:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.932	0.0100	mg/L	1	BGI0723	09/25/23	09/27/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/19/23 11:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	434	0.400	mg/kg dry	1	BGI0727	09/25/23	09/25/23	EPA 6020B	

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

Date Sampled: **09/19/23 11:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	54.7	0.0592	mg/L dry	1	BGI0713	09/22/23	09/26/23	EPA 6020B	
Magnesium	10.8	0.0592	"	"	"	"	"	"	
Sodium	391	0.0592	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/19/23 11:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	12.6	0.00100	units	1	BGI0843	09/27/23	09/27/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/19/23 11:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.4		%	1	BGI0772	09/26/23	09/26/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

SS52@3
2309352-23 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/19/23 11:58**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	2.34	0.0100		mmhos/cm	1	BGI0729	09/25/23	09/25/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

SS53@3
2309352-24 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/19/23 12:01**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	1.30	0.0100	mg/L	1	BGI0723	09/25/23	09/27/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/19/23 12:01**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	325	0.400	mg/kg dry	1	BGI0727	09/25/23	09/25/23	EPA 6020B	

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

Date Sampled: **09/19/23 12:01**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	89.3	0.0577	mg/L dry	1	BGI0713	09/22/23	09/26/23	EPA 6020B	
Magnesium	19.4	0.0577	"	"	"	"	"	"	
Sodium	580	0.0577	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/19/23 12:01**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	14.5	0.00100	units	1	BGI0843	09/27/23	09/27/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/19/23 12:01**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.7		%	1	BGI0772	09/26/23	09/26/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

SS53@3
2309352-24 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/19/23 12:01**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	3.87	0.0100		mmhos/cm	1	BGI0729	09/25/23	09/25/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

SS54@4
2309352-25 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/19/23 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	1.51	0.0100	mg/L	1	BGI0723	09/25/23	09/27/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/19/23 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	385	0.400	mg/kg dry	1	BGI0727	09/25/23	09/25/23	EPA 6020B	

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

Date Sampled: **09/19/23 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	104	0.0586	mg/L dry	1	BGI0713	09/22/23	09/26/23	EPA 6020B	
Magnesium	20.1	0.0586	"	"	"	"	"	"	
Sodium	613	0.0586	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/19/23 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	14.4	0.00100	units	1	BGI0843	09/27/23	09/27/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/19/23 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.3		%	1	BGI0772	09/26/23	09/26/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

SS54@4
2309352-25 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/19/23 12:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	3.83	0.0100		mmhos/cm	1	BGI0729	09/25/23	09/25/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

SS55@3
2309352-26 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/19/23 12:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	1.23	0.0100	mg/L	1	BGI0723	09/25/23	09/27/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/19/23 12:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	358	0.400	mg/kg dry	1	BGI0727	09/25/23	09/25/23	EPA 6020B	

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

Date Sampled: **09/19/23 12:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	68.3	0.0581	mg/L dry	1	BGI0713	09/22/23	09/26/23	EPA 6020B	
Magnesium	9.24	0.0581	"	"	"	"	"	"	
Sodium	295	0.0581	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/19/23 12:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	8.89	0.00100	units	1	BGI0843	09/27/23	09/27/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/19/23 12:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.1		%	1	BGI0772	09/26/23	09/26/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

SS55@3
2309352-26 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/19/23 12:18**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	1.95	0.0100		mmhos/cm	1	BGI0729	09/25/23	09/25/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

SS56@3
2309352-27 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/19/23 12:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.361	0.0100	mg/L	1	BGI0723	09/25/23	09/27/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/19/23 12:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	190	0.400	mg/kg dry	1	BGI0727	09/25/23	09/25/23	EPA 6020B	

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

Date Sampled: **09/19/23 12:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	25.3	0.0536	mg/L dry	1	BGI0713	09/22/23	09/26/23	EPA 6020B	
Magnesium	3.38	0.0536	"	"	"	"	"	"	
Sodium	3.43	0.0536	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/19/23 12:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.170	0.00100	units	1	BGI0843	09/27/23	09/27/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/19/23 12:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.3		%	1	BGI0772	09/26/23	09/26/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

SS56@3
2309352-27 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/19/23 12:21**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.208	0.0100		mmhos/cm	1	BGI0729	09/25/23	09/25/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

SS57@4
2309352-28 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/19/23 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.199	0.0100	mg/L	1	BGI0723	09/25/23	09/27/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/19/23 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	270	0.400	mg/kg dry	1	BGI0727	09/25/23	09/25/23	EPA 6020B	

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

Date Sampled: **09/19/23 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	21.3	0.0535	mg/L dry	1	BGI0713	09/22/23	09/26/23	EPA 6020B	
Magnesium	2.99	0.0535	"	"	"	"	"	"	
Sodium	2.94	0.0535	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/19/23 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.158	0.00100	units	1	BGI0843	09/27/23	09/27/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/19/23 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.4		%	1	BGI0772	09/26/23	09/26/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

SS57@4
2309352-28 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/19/23 13:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.176	0.0100		mmhos/cm	1	BGI0729	09/25/23	09/25/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

SS58@3
2309352-29 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/19/23 13:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0871	0.0100	mg/L	1	BGI0723	09/25/23	09/27/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/19/23 13:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	242	0.400	mg/kg dry	1	BGI0727	09/25/23	09/25/23	EPA 6020B	

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

Date Sampled: **09/19/23 13:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	51.9	0.0542	mg/L dry	1	BGI0713	09/22/23	09/26/23	EPA 6020B	
Magnesium	4.74	0.0542	"	"	"	"	"	"	
Sodium	2.39	0.0542	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/19/23 13:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0852	0.00100	units	1	BGI0843	09/27/23	09/27/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/19/23 13:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.2		%	1	BGI0772	09/26/23	09/26/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

SS58@3
2309352-29 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/19/23 13:03**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.239	0.0100		mmhos/cm	1	BGI0729	09/25/23	09/25/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

SS59@3
2309352-30 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/19/23 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0390	0.0100	mg/L	1	BGI0723	09/25/23	09/27/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/19/23 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	238	0.400	mg/kg dry	1	BGI0727	09/25/23	09/25/23	EPA 6020B	

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

Date Sampled: **09/19/23 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	34.0	0.0541	mg/L dry	1	BGI0713	09/22/23	09/26/23	EPA 6020B	
Magnesium	3.29	0.0541	"	"	"	"	"	"	
Sodium	1.97	0.0541	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/19/23 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0864	0.00100	units	1	BGI0843	09/27/23	09/27/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/19/23 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.4		%	1	BGI0772	09/26/23	09/26/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

SS59@3
2309352-30 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/19/23 13:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.191	0.0100		mmhos/cm	1	BGI0729	09/25/23	09/25/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

SS60@4
2309352-31 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/19/23 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0757	0.0100	mg/L	1	BGI0723	09/25/23	09/27/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/19/23 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	260	0.400	mg/kg dry	1	BGI0727	09/25/23	09/25/23	EPA 6020B	

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

Date Sampled: **09/19/23 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	44.1	0.0541	mg/L dry	1	BGI0713	09/22/23	09/26/23	EPA 6020B	
Magnesium	3.41	0.0541	"	"	"	"	"	"	
Sodium	1.70	0.0541	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/19/23 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0664	0.00100	units	1	BGI0843	09/27/23	09/27/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/19/23 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.3		%	1	BGI0772	09/26/23	09/26/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

SS60@4
2309352-31 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/19/23 13:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.149	0.0100		mmhos/cm	1	BGI0729	09/25/23	09/25/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

SS61@3
2309352-32 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/19/23 13:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.175	0.0100	mg/L	1	BGI0723	09/25/23	09/27/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/19/23 13:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	285	0.400	mg/kg dry	1	BGI0727	09/25/23	09/25/23	EPA 6020B	

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

Date Sampled: **09/19/23 13:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	38.6	0.0540	mg/L dry	1	BGI0713	09/22/23	09/26/23	EPA 6020B	
Magnesium	3.99	0.0540	"	"	"	"	"	"	
Sodium	2.39	0.0540	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/19/23 13:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0979	0.00100	units	1	BGI0843	09/27/23	09/27/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/19/23 13:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.6		%	1	BGI0772	09/26/23	09/26/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

SS61@3
2309352-32 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/19/23 13:18**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.216	0.0100		mmhos/cm	1	BGI0729	09/25/23	09/25/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

SS62@3
2309352-33 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/19/23 13:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0854	0.0100	mg/L	1	BGI0723	09/25/23	09/27/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/19/23 13:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	252	0.400	mg/kg dry	1	BGI0727	09/25/23	09/25/23	EPA 6020B	

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

Date Sampled: **09/19/23 13:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	78.1	0.0540	mg/L dry	1	BGI0713	09/22/23	09/26/23	EPA 6020B	
Magnesium	6.30	0.0540	"	"	"	"	"	"	
Sodium	3.55	0.0540	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/19/23 13:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.104	0.00100	units	1	BGI0843	09/27/23	09/27/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/19/23 13:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.6		%	1	BGI0772	09/26/23	09/26/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

SS62@3
2309352-33 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/19/23 13:21**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.272	0.0100		mmhos/cm	1	BGI0729	09/25/23	09/25/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

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 BGI0721 - EPA 3050B

Blank (BGI0721-BLK1)				Prepared & Analyzed: 09/25/23						
Boron	ND	0.0100	mg/L							
LCS (BGI0721-BS1)				Prepared & Analyzed: 09/25/23						
Boron	5.63	0.0100	mg/L	5.00	113	80-120				
Duplicate (BGI0721-DUP1)		Source: 2309352-01		Prepared & Analyzed: 09/25/23						
Boron	0.0770	0.0100	mg/L	0.123	45.8	20	QR-01			
Matrix Spike (BGI0721-MS1)		Source: 2309352-01		Prepared & Analyzed: 09/25/23						
Boron	5.63	0.0100	mg/L	5.00	0.123	110	75-125			
Matrix Spike Dup (BGI0721-MSD1)		Source: 2309352-01		Prepared & Analyzed: 09/25/23						
Boron	5.98	0.0100	mg/L	5.00	0.123	117	75-125	6.09	25	

Batch BGI0723 - EPA 3050B

Blank (BGI0723-BLK1)				Prepared: 09/25/23 Analyzed: 09/27/23			
Boron	ND	0.0100	mg/L				
LCS (BGI0723-BS1)				Prepared: 09/25/23 Analyzed: 09/27/23			
Boron	5.19	0.0100	mg/L	5.00	104	80-120	
Duplicate (BGI0723-DUP1)		Source: 2309352-21		Prepared: 09/25/23 Analyzed: 09/27/23			
Boron	1.34	0.0100	mg/L	1.29		3.64	20
Matrix Spike (BGI0723-MS1)		Source: 2309352-21		Prepared: 09/25/23 Analyzed: 09/27/23			
Boron	7.25	0.0100	mg/L	5.00	1.29	119	75-125

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L

Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

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

Summit Scientific

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

Batch BGI0723 - EPA 3050B

Matrix Spike Dup (BGI0723-MSD1)

Source: 2309352-21

Prepared: 09/25/23 Analyzed: 09/27/23

Boron	7.37	0.0100	mg/L	5.00	1.29	122	75-125	1.72	25	
-------	------	--------	------	------	------	-----	--------	------	----	--

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGI0726 - EPA 3050B

Blank (BGI0726-BLK1)					Prepared: 09/25/23 Analyzed: 09/27/23					
Barium	ND	0.400	mg/kg wet							
LCS (BGI0726-BS1)					Prepared: 09/25/23 Analyzed: 09/27/23					
Barium	47.8	0.400	mg/kg wet	40.0		119	80-120			
Duplicate (BGI0726-DUP1)					Source: 2309352-01 Prepared: 09/25/23 Analyzed: 09/27/23					
Barium	231	0.400	mg/kg dry		235			1.73	20	
Matrix Spike (BGI0726-MS1)					Source: 2309352-01 Prepared: 09/25/23 Analyzed: 09/27/23					
Barium	262	0.400	mg/kg dry	43.1	235	64.3	75-125			QM-07
Matrix Spike Dup (BGI0726-MSD1)					Source: 2309352-01 Prepared: 09/25/23 Analyzed: 09/27/23					
Barium	255	0.400	mg/kg dry	43.1	235	46.4	75-125	2.99	25	QM-07

Batch BGI0727 - EPA 3050B

Blank (BGI0727-BLK1)					Prepared & Analyzed: 09/25/23					
Barium	ND	0.400	mg/kg wet							
LCS (BGI0727-BS1)					Prepared & Analyzed: 09/25/23					
Barium	39.6	0.400	mg/kg wet	40.0		99.0	80-120			
Duplicate (BGI0727-DUP1)					Source: 2309352-21 Prepared & Analyzed: 09/25/23					
Barium	271	0.400	mg/kg dry		291			7.03	20	
Matrix Spike (BGI0727-MS1)					Source: 2309352-21 Prepared & Analyzed: 09/25/23					
Barium	330	0.400	mg/kg dry	46.9	291	84.8	75-125			

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L

Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGI0727 - EPA 3050B

Matrix Spike Dup (BGI0727-MSD1)

Source: 2309352-21

Prepared & Analyzed: 09/25/23

Barium	328	0.400	mg/kg dry	46.9	291	79.7	75-125	0.734	25
--------	-----	-------	-----------	------	-----	------	--------	-------	----

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

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

Summit Scientific

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

Batch BGI0703 - General Preparation

Blank (BGI0703-BLK1)

Prepared: 09/22/23 Analyzed: 09/27/23

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

LCS (BGI0703-BS1)

Prepared: 09/22/23 Analyzed: 09/27/23

Calcium	4.42	0.0500	mg/L wet	5.00	88.5	70-130
Magnesium	4.78	0.0500	"	5.00	95.7	70-130
Sodium	5.40	0.0500	"	5.00	108	70-130

Batch BGI0713 - General Preparation

Blank (BGI0713-BLK1)

Prepared: 09/22/23 Analyzed: 09/26/23

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

LCS (BGI0713-BS1)

Prepared: 09/22/23 Analyzed: 09/26/23

Calcium	4.29	0.0500	mg/L wet	5.00	85.9	70-130
Magnesium	4.44	0.0500	"	5.00	88.8	70-130
Sodium	4.16	0.0500	"	5.00	83.1	70-130

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L

Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

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

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

Batch BGI0757 - General Preparation

Duplicate (BGI0757-DUP1) **Source: 2309344-01** Prepared & Analyzed: 09/25/23

% Solids	92.1		%		92.3			0.244	20
----------	------	--	---	--	------	--	--	-------	----

Batch BGI0771 - General Preparation

Duplicate (BGI0771-DUP1) **Source: 2309352-13** Prepared & Analyzed: 09/26/23

% Solids	83.4		%		83.3			0.0432	20
----------	------	--	---	--	------	--	--	--------	----

Batch BGI0772 - General Preparation

Duplicate (BGI0772-DUP1) **Source: 2309352-22** Prepared & Analyzed: 09/26/23

% Solids	84.1		%		84.5			0.396	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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

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

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

Batch BGI0729 - General Preparation

Blank (BGI0729-BLK1)

Prepared & Analyzed: 09/25/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGI0729-BS1)

Prepared & Analyzed: 09/25/23

Specific Conductance (EC) 0.156 0.0100 mmhos/cm 0.150 104 95-105

Duplicate (BGI0729-DUP1)

Source: 2309352-21

Prepared & Analyzed: 09/25/23

Specific Conductance (EC) 4.27 0.0100 mmhos/cm 4.31 0.909 20

Batch BGI0788 - General Preparation

Blank (BGI0788-BLK1)

Prepared & Analyzed: 09/26/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGI0788-BS1)

Prepared & Analyzed: 09/26/23

Specific Conductance (EC) 0.155 0.0100 mmhos/cm 0.150 103 95-105

Duplicate (BGI0788-DUP1)

Source: 2309352-01

Prepared & Analyzed: 09/26/23

Specific Conductance (EC) 0.296 0.0100 mmhos/cm 0.299 1.08 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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction. CO, 81501

Project: Wildhorse 16-13L

Project Number: 023-051
Project Manager: Ryan Finley

Reported:
09/29/23 10:53

Notes and Definitions

QR-01	Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
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

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

November 28, 2023

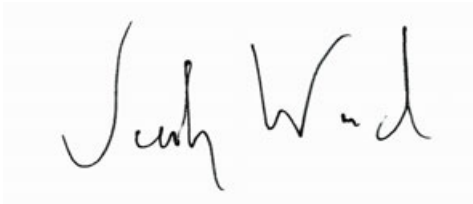
Ryan Finley
Entrada Consulting Group
240 Mesa Avenue
Grand Junction., CO 81501

RE: Wildhorse 16-13L

Work Order #2310563

Enclosed are the results of analyses for samples received by Summit Scientific on 10/27/23 17:42. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Jacob Wood". The signature is written in a cursive, flowing style.

Jacob Wood For Paul Shrewsbury
President



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L

Project Number: 023-051
Project Manager: Ryan Finley

Reported:
11/28/23 14:54

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS63@5	2310563-01	Soil	10/26/23 11:00	10/27/23 17:42
SS64@3	2310563-02	Soil	10/26/23 11:05	10/27/23 17:42
SS65@5	2310563-03	Soil	10/26/23 11:15	10/27/23 17:42
SS66@3	2310563-04	Soil	10/26/23 11:20	10/27/23 17:42
SS67@5	2310563-05	Soil	10/26/23 11:25	10/27/23 17:42
SS68@3	2310563-06	Soil	10/26/23 11:30	10/27/23 17:42
SS69@3	2310563-07	Soil	10/26/23 11:35	10/27/23 17:42
SS70@5	2310563-08	Soil	10/26/23 11:40	10/27/23 17:42
SS71@3	2310563-09	Soil	10/26/23 11:45	10/27/23 17:42
SS72@3	2310563-10	Soil	10/26/23 11:50	10/27/23 17:42
SS73@5	2310563-11	Soil	10/26/23 11:55	10/27/23 17:42
SS74@3	2310563-12	Soil	10/26/23 12:00	10/27/23 17:42
SS75@3	2310563-13	Soil	10/26/23 12:05	10/27/23 17:42
SS76@5	2310563-14	Soil	10/26/23 12:10	10/27/23 17:42
SS77@3	2310563-15	Soil	10/26/23 12:15	10/27/23 17:42

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

4653 Table Mountain Drive
Golden, CO 80403
303-277-9310

Lab ID	Page 1 of 1
2310563	

Client: <u>Entrada Consulting Group</u>	Send Data To: Project Manager: <u>Ryan Finley</u>	Send Invoice To: Company: <u>Entrada</u>
Address: <u>ON File</u>	E-Mail: <u>rfinley@entradainc.com</u>	Project Name/Location: <u>Wildhorse 16-13L</u>
City/State/Zip: <u>ON File</u>		AFE#:
Phone: <u>303-907-0635</u>	Project Name: <u>Wildhorse 16-13L</u>	PO/Billing Codes:
Sampler Name: <u>Ryan Finley</u>	Project Number:	Contact: <u>Stuart Hall shall@entradainc</u>

					Preservative				Matrix				Analysis Requested				Special Instructions			
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other _____	Water	Soil	Air-Canister #	Other _____	EC	SAR	Boron	Barium				
1	SS6305	10/26/23	1100										X	X	X	X				
2	SS6403	↓	1105																	
3	SS6505		1115																	
4	SS6603		1120																	
5	SS6705		1125																	
6	SS6803		1130																	
7	SS6903		1135																	
8	SS7005		1140																	
9	SS7103		1145																	
10	SS7203		1150																	
11	SS7305		1155																	
12	SS7403		1200																	
13	SS7503		1205																	
14	SS7605		1210																	
15	SS7703		1215																	

Relinquished by: <u>R. Finley</u>	Date/Time: <u>10/26/23 17:42</u>	Received by: <u>Stuart Hall</u>	Date/Time: <u>10/27/23 17:42</u>	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	Field Turb. <input checked="" type="checkbox"/>	
Temperature Upon Receipt: <u>12.2</u>	Corrected Temperature <u>2</u>	IR gun #:	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2310563Client: Entrada Client Project ID: Wildhorse 16-13LShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ ☐ ☐ ☐ ☐ Airbill #: _____Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 12.2Thermometer # 2

	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"/>	
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 checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	no matrix no # of containers
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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	no time stamps
For volatiles in water – is there headspace 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 (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input 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

10/27/23
 Date/Time



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
11/28/23 14:54

SS63@5
2310563-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: 10/26/23 11:00									
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0214	11/07/23	11/09/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: 10/26/23 11:00									
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	153	0.400	mg/kg dry	1	BGK0160	11/06/23	11/08/23	EPA 6020B	

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

Date Sampled: 10/26/23 11:00									
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	39.0	0.0500	mg/L dry	1	BGK0038	11/01/23	11/03/23	EPA 6020B	
Magnesium	7.57	0.0500	"	"	"	"	"	"	
Sodium	2.58	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 10/26/23 11:00									
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0990	0.00100	units	1	BGK0212	11/07/23	11/07/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 10/26/23 11:00									
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.8		%	1	BGK0131	11/03/23	11/03/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
11/28/23 14:54

SS63@5
2310563-01 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/26/23 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.267	0.0100		mmhos/cm	1	BGK0052	11/02/23	11/02/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
11/28/23 14:54

SS64@3
2310563-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/26/23 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0214	11/07/23	11/09/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/26/23 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	144	0.400	mg/kg dry	1	BGK0160	11/06/23	11/08/23	EPA 6020B	

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

Date Sampled: **10/26/23 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	81.1	0.0500	mg/L dry	1	BGK0038	11/01/23	11/03/23	EPA 6020B	
Magnesium	8.22	0.0500	"	"	"	"	"	"	
Sodium	6.63	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/26/23 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.188	0.00100	units	1	BGK0212	11/07/23	11/07/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/26/23 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.8		%	1	BGK0131	11/03/23	11/03/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
11/28/23 14:54

SS64@3
2310563-02 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/26/23 11:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.321	0.0100		mmhos/cm	1	BGK0052	11/02/23	11/02/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
11/28/23 14:54

SS65@5
2310563-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/26/23 11:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BGK0214	11/07/23	11/09/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/26/23 11:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Barium	186	0.400	mg/kg dry	1	BGK0160	11/06/23	11/08/23	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/26/23 11:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
% Solids	89.3		%	1	BGK0131	11/03/23	11/03/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/26/23 11:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Specific Conductance (EC)	3.96	0.0100	mmhos/cm	1	BGK0052	11/02/23	11/02/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
11/28/23 14:54

SS65@5
2310563-03 (Soil)

Summit Scientific

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

Date Sampled: **10/26/23 11:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	57.2	0.0500	mg/L dry	1	BGK0898	11/01/23	11/27/23	EPA 6020B	
Magnesium	2.63	0.0500	"	"	"	"	"	"	
Sodium	80.4	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/26/23 11:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	2.82	0.00100	units	1	BGK1026	11/07/23	11/28/23	Calculation	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
11/28/23 14:54

SS66@3
2310563-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/26/23 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0214	11/07/23	11/09/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/26/23 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	222	0.400	mg/kg dry	1	BGK0160	11/06/23	11/08/23	EPA 6020B	

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

Date Sampled: **10/26/23 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	277	0.0500	mg/L dry	1	BGK0038	11/01/23	11/03/23	EPA 6020B	
Magnesium	41.7	0.0500	"	"	"	"	"	"	
Sodium	34.6	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/26/23 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.512	0.00100	units	1	BGK0212	11/07/23	11/07/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/26/23 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.6		%	1	BGK0131	11/03/23	11/03/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
11/28/23 14:54

SS66@3
2310563-04 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/26/23 11:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	2.48	0.0100		mmhos/cm	1	BGK0052	11/02/23	11/02/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
11/28/23 14:54

SS67@5
2310563-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/26/23 11:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BGK0214	11/07/23	11/09/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/26/23 11:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Barium	237	0.400	mg/kg dry	1	BGK0160	11/06/23	11/08/23	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/26/23 11:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
% Solids	89.7		%	1	BGK0131	11/03/23	11/03/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/26/23 11:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Specific Conductance (EC)	3.87	0.0100	mmhos/cm	1	BGK0052	11/02/23	11/02/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
11/28/23 14:54

SS67@5
2310563-05 (Soil)

Summit Scientific

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

Date Sampled: **10/26/23 11:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	35.3	0.0500		mg/L dry	1	BGK0898	11/01/23	11/27/23	EPA 6020B	
Magnesium	2.36	0.0500		"	"	"	"	"	"	
Sodium	76.1	0.0500		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/26/23 11:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Sodium Adsorption Ratio	3.35	0.00100		units	1	BGK1026	11/07/23	11/28/23	Calculation	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
11/28/23 14:54

SS68@3
2310563-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/26/23 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0214	11/07/23	11/09/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/26/23 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	270	0.400	mg/kg dry	1	BGK0160	11/06/23	11/08/23	EPA 6020B	

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

Date Sampled: **10/26/23 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	450	0.0500	mg/L dry	1	BGK0038	11/01/23	11/03/23	EPA 6020B	
Magnesium	99.9	0.0500	"	"	"	"	"	"	
Sodium	110	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/26/23 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.22	0.00100	units	1	BGK0212	11/07/23	11/07/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/26/23 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.3		%	1	BGK0131	11/03/23	11/03/23	Calculation	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
11/28/23 14:54

SS68@3
2310563-06 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/26/23 11:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	2.79	0.0100		mmhos/cm	1	BGK0834	11/21/23	11/21/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
11/28/23 14:54

SS69@3
2310563-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/26/23 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0214	11/07/23	11/09/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/26/23 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	395	0.400	mg/kg dry	1	BGK0160	11/06/23	11/08/23	EPA 6020B	

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

Date Sampled: **10/26/23 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	433	0.0500	mg/L dry	1	BGK0038	11/01/23	11/03/23	EPA 6020B	
Magnesium	88.4	0.0500	"	"	"	"	"	"	
Sodium	88.9	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/26/23 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.02	0.00100	units	1	BGK0212	11/07/23	11/07/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/26/23 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.3		%	1	BGK0131	11/03/23	11/03/23	Calculation	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
11/28/23 14:54

SS69@3
2310563-07 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/26/23 11:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	3.35	0.0100		mmhos/cm	1	BGK0834	11/21/23	11/21/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
11/28/23 14:54

SS70@5
2310563-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/26/23 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0214	11/07/23	11/09/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/26/23 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	246	0.400	mg/kg dry	1	BGK0160	11/06/23	11/08/23	EPA 6020B	

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

Date Sampled: **10/26/23 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	260	0.0500	mg/L dry	1	BGK0038	11/01/23	11/03/23	EPA 6020B	
Magnesium	69.1	0.0500	"	"	"	"	"	"	
Sodium	178	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/26/23 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.53	0.00100	units	1	BGK0212	11/07/23	11/07/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/26/23 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.5		%	1	BGK0131	11/03/23	11/03/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
11/28/23 14:54

SS70@5
2310563-08 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/26/23 11:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	3.82	0.0100		mmhos/cm	1	BGK0052	11/02/23	11/02/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
11/28/23 14:54

SS71@3
2310563-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/26/23 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0214	11/07/23	11/09/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/26/23 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	298	0.400	mg/kg dry	1	BGK0160	11/06/23	11/08/23	EPA 6020B	

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

Date Sampled: **10/26/23 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	464	0.0500	mg/L dry	1	BGK0038	11/01/23	11/03/23	EPA 6020B	
Magnesium	131	0.0500	"	"	"	"	"	"	
Sodium	410	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/26/23 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.33	0.00100	units	1	BGK0212	11/07/23	11/07/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/26/23 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.0		%	1	BGK0131	11/03/23	11/03/23	Calculation	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
11/28/23 14:54

SS71@3
2310563-09 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/26/23 11:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	4.59	0.0100		mmhos/cm	1	BGK0834	11/21/23	11/21/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
11/28/23 14:54

SS72@3
2310563-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/26/23 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0214	11/07/23	11/09/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/26/23 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	259	0.400	mg/kg dry	1	BGK0160	11/06/23	11/08/23	EPA 6020B	

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

Date Sampled: **10/26/23 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	353	0.0500	mg/L dry	1	BGK0038	11/01/23	11/03/23	EPA 6020B	
Magnesium	81.2	0.0500	"	"	"	"	"	"	
Sodium	78.1	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/26/23 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.975	0.00100	units	1	BGK0212	11/07/23	11/07/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/26/23 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.6		%	1	BGK0131	11/03/23	11/03/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
11/28/23 14:54

SS72@3
2310563-10 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/26/23 11:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	3.77	0.0100		mmhos/cm	1	BGK0052	11/02/23	11/02/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
11/28/23 14:54

SS73@5
2310563-11 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/26/23 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0214	11/07/23	11/09/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/26/23 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	172	0.400	mg/kg dry	1	BGK0160	11/06/23	11/08/23	EPA 6020B	

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

Date Sampled: **10/26/23 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	111	0.0500	mg/L dry	1	BGK0038	11/01/23	11/03/23	EPA 6020B	
Magnesium	19.8	0.0500	"	"	"	"	"	"	
Sodium	60.9	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/26/23 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.40	0.00100	units	1	BGK0212	11/07/23	11/07/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/26/23 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.1		%	1	BGK0131	11/03/23	11/03/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
11/28/23 14:54

SS73@5
2310563-11 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/26/23 11:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	1.31	0.0100		mmhos/cm	1	BGK0052	11/02/23	11/02/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
11/28/23 14:54

SS74@3
2310563-12 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/26/23 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0214	11/07/23	11/09/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/26/23 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	247	0.400	mg/kg dry	1	BGK0160	11/06/23	11/08/23	EPA 6020B	

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

Date Sampled: **10/26/23 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	221	0.0500	mg/L dry	1	BGK0038	11/01/23	11/03/23	EPA 6020B	
Magnesium	56.0	0.0500	"	"	"	"	"	"	
Sodium	131	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/26/23 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.04	0.00100	units	1	BGK0212	11/07/23	11/07/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/26/23 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.0		%	1	BGK0131	11/03/23	11/03/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
11/28/23 14:54

SS74@3
2310563-12 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/26/23 12:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	2.98	0.0100		mmhos/cm	1	BGK0052	11/02/23	11/02/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
11/28/23 14:54

SS75@3
2310563-13 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/26/23 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0214	11/07/23	11/09/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/26/23 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	245	0.400	mg/kg dry	1	BGK0160	11/06/23	11/08/23	EPA 6020B	

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

Date Sampled: **10/26/23 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	256	0.0500	mg/L dry	1	BGK0038	11/01/23	11/03/23	EPA 6020B	
Magnesium	60.3	0.0500	"	"	"	"	"	"	
Sodium	105	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/26/23 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.53	0.00100	units	1	BGK0212	11/07/23	11/07/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/26/23 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.8		%	1	BGK0131	11/03/23	11/03/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
11/28/23 14:54

SS75@3
2310563-13 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/26/23 12:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	3.01	0.0100		mmhos/cm	1	BGK0052	11/02/23	11/02/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
11/28/23 14:54

SS76@5
2310563-14 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/26/23 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0214	11/07/23	11/09/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/26/23 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	257	0.400	mg/kg dry	1	BGK0160	11/06/23	11/08/23	EPA 6020B	

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

Date Sampled: **10/26/23 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	92.0	0.0500	mg/L dry	1	BGK0038	11/01/23	11/03/23	EPA 6020B	
Magnesium	17.9	0.0500	"	"	"	"	"	"	
Sodium	61.9	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/26/23 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.55	0.00100	units	1	BGK0212	11/07/23	11/07/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/26/23 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.3		%	1	BGK0131	11/03/23	11/03/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
11/28/23 14:54

SS76@5
2310563-14 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/26/23 12:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	1.24	0.0100		mmhos/cm	1	BGK0052	11/02/23	11/02/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
11/28/23 14:54

SS77@3
2310563-15 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/26/23 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0214	11/07/23	11/09/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/26/23 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	294	0.400	mg/kg dry	1	BGK0160	11/06/23	11/08/23	EPA 6020B	

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

Date Sampled: **10/26/23 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	262	0.0500	mg/L dry	1	BGK0038	11/01/23	11/03/23	EPA 6020B	
Magnesium	65.7	0.0500	"	"	"	"	"	"	
Sodium	54.7	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/26/23 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.783	0.00100	units	1	BGK0212	11/07/23	11/07/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/26/23 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.9		%	1	BGK0131	11/03/23	11/03/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
11/28/23 14:54

SS77@3
2310563-15 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/26/23 12:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	2.95	0.0100		mmhos/cm	1	BGK0052	11/02/23	11/02/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
11/28/23 14:54

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 BGK0214 - EPA 3050B

Blank (BGK0214-BLK1)

Prepared: 11/07/23 Analyzed: 11/09/23

Boron ND 2.00 mg/L

LCS (BGK0214-BS1)

Prepared: 11/07/23 Analyzed: 11/09/23

Boron 5.69 2.00 mg/L 5.00 114 80-120

Duplicate (BGK0214-DUP1)

Source: 2310562-01

Prepared: 11/07/23 Analyzed: 11/09/23

Boron 0.139 2.00 mg/L 0.111 22.4 20 QR-01

Matrix Spike (BGK0214-MS1)

Source: 2310562-01

Prepared: 11/07/23 Analyzed: 11/10/23

Boron 4.67 2.00 mg/L 5.00 0.111 91.1 75-125

Matrix Spike Dup (BGK0214-MSD1)

Source: 2310562-01

Prepared: 11/07/23 Analyzed: 11/10/23

Boron 4.33 2.00 mg/L 5.00 0.111 84.3 75-125 7.58 25

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
11/28/23 14:54

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGK0160 - EPA 3050B

Blank (BGK0160-BLK1)

Prepared: 11/06/23 Analyzed: 11/08/23

Barium ND 0.400 mg/kg wet

LCS (BGK0160-BS1)

Prepared: 11/06/23 Analyzed: 11/08/23

Barium 38.6 0.400 mg/kg wet 40.0 96.5 80-120

Duplicate (BGK0160-DUP1)

Source: 2310563-01

Prepared: 11/06/23 Analyzed: 11/08/23

Barium 171 0.400 mg/kg dry 153 11.2 20

Matrix Spike (BGK0160-MS1)

Source: 2310563-01

Prepared: 11/06/23 Analyzed: 11/08/23

Barium 172 0.400 mg/kg dry 42.7 153 44.2 75-125 QM-07

Matrix Spike Dup (BGK0160-MSD1)

Source: 2310563-01

Prepared: 11/06/23 Analyzed: 11/08/23

Barium 171 0.400 mg/kg dry 42.7 153 43.8 75-125 0.0888 25 QM-07

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
11/28/23 14:54

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

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

Batch BGK0038 - General Preparation

Blank (BGK0038-BLK1)

Prepared: 11/01/23 Analyzed: 11/03/23

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

LCS (BGK0038-BS1)

Prepared: 11/01/23 Analyzed: 11/03/23

Calcium	4.82	0.0500	mg/L wet	5.00	96.4	70-130
Magnesium	4.91	0.0500	"	5.00	98.1	70-130
Sodium	4.76	0.0500	"	5.00	95.2	70-130

Batch BGK0898 - General Preparation

Blank (BGK0898-BLK1)

Prepared: 11/22/23 Analyzed: 11/27/23

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

LCS (BGK0898-BS1)

Prepared: 11/22/23 Analyzed: 11/27/23

Calcium	5.71	0.0500	mg/L wet	5.00	114	70-130
Magnesium	5.28	0.0500	"	5.00	106	70-130
Sodium	5.32	0.0500	"	5.00	106	70-130

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction. CO, 81501

Project: Wildhorse 16-13L

Project Number: 023-051
Project Manager: Ryan Finley

Reported:
11/28/23 14:54

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 BGK0131 - General Preparation

Duplicate (BGK0131-DUP1)

Source: 2310563-01

Prepared & Analyzed: 11/03/23

% Solids	93.6	%		93.8		0.204	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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
11/28/23 14:54

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 BGK0052 - General Preparation

Blank (BGK0052-BLK1)

Prepared & Analyzed: 11/02/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGK0052-BS1)

Prepared & Analyzed: 11/02/23

Specific Conductance (EC) 0.148 0.0100 mmhos/cm 0.150 98.9 95-105

Duplicate (BGK0052-DUP1)

Source: 2310501-14

Prepared & Analyzed: 11/02/23

Specific Conductance (EC) 0.564 0.0100 mmhos/cm 0.564 0.00 20

Batch BGK0834 - General Preparation

Blank (BGK0834-BLK1)

Prepared & Analyzed: 11/21/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGK0834-BS1)

Prepared & Analyzed: 11/21/23

Specific Conductance (EC) 0.148 0.0100 mmhos/cm 0.150 98.4 95-105

Duplicate (BGK0834-DUP1)

Source: 2310563-06

Prepared & Analyzed: 11/21/23

Specific Conductance (EC) 2.57 0.0100 mmhos/cm 2.79 8.20 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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L

Project Number: 023-051
Project Manager: Ryan Finley

Reported:
11/28/23 14:54

Notes and Definitions

QR-01	Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
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

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

January 15, 2024

Ryan Finley

Entrada Consulting Group

240 Mesa Avenue

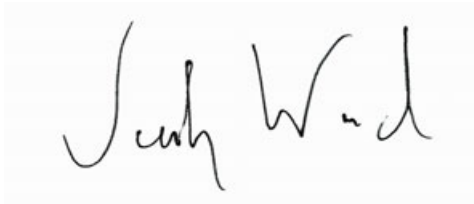
Grand Junction., CO 81501

RE: Wildhorse 16-13L

Work Order #2312141

Enclosed are the results of analyses for samples received by Summit Scientific on 12/07/23 12:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Jacob Wood". The signature is written in a cursive, flowing style.

Jacob Wood For Paul Shrewsbury

President



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L

Project Number: 023-051
Project Manager: Ryan Finley

Reported:
01/15/24 15:34

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BD01@2	2312141-01	Soil	12/05/23 11:45	12/07/23 12:00
BD02@2	2312141-02	Soil	12/05/23 12:00	12/07/23 12:00
BD03@3	2312141-03	Soil	12/05/23 12:15	12/07/23 12:00
BD04@3	2312141-04	Soil	12/05/23 12:30	12/07/23 12:00
BD05@3	2312141-05	Soil	12/05/23 12:45	12/07/23 12:00
BD06@3	2312141-06	Soil	12/05/23 13:00	12/07/23 12:00
SS78@3	2312141-07	Soil	12/05/23 13:15	12/07/23 12:00
SS79@3	2312141-08	Soil	12/05/23 13:20	12/07/23 12:00
SS80@4	2312141-09	Soil	12/05/23 13:25	12/07/23 12:00
SS81@3	2312141-10	Soil	12/05/23 13:30	12/07/23 12:00
SS82@3	2312141-11	Soil	12/05/23 13:40	12/07/23 12:00
BD07@5	2312141-12	Soil	12/05/23 13:50	12/07/23 12:00

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

4653 Table Mountain Drive
Golden, CO 80403
303-277-9310

Lab ID	Page 1 of 1
2312141	

Client: <u>Entrada Consulting Group</u>		Send Data To:		Send Invoice To:	
Address: <u>ON File</u>		Project Manager: <u>Ryan Finley</u>		Company: <u>Entrada</u>	
City/State/Zip: <u>ON File</u>		E-Mail: <u>rfinley@entradainc.com</u>		Project Name/Location: <u>wildhorse 16-13L</u>	
Phone: <u>303-907-0635</u>		Project Name: <u>wildhorse 16-13L</u>		AFE#:	
Sampler Name: <u>Ryan Finley</u>		Project Number: <u>023-051</u>		PO/Billing Codes: <u>023-051</u>	
				Contact: <u>g.hall@entradainc.com</u>	

					Preservative				Matrix			Analysis Requested						Special Instructions							
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	EC	SAR	Boron	Barium									
1	BD01@2	12/5/23	1145	1			X			X						X									
2	BD02@2	↓	1200	↓			↓			↓							↓								
3	BD03@3		1215																						
4	BD04@3		1230																						
5	BD05@3		1245																						
6	BD06@3		1300																						
7	SS78@3		1315													X		X	X	X					
8	SS79@3		1320															↓	↓	↓	↓				
9	SS80@4		1325															↓	↓	↓	↓				
10	SS81@3		1330															↓	↓	↓	↓				
11	SS82@3		1340																						
12	BD07@5		1350		↓						↓			↓							X				
13																									
14																									
15																									

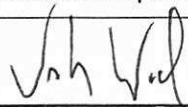
Relinquished by: <u>Ryan Finley</u>	Date/Time: <u>12/17/23 1200</u>	Received by: <u>W-d</u>	Date/Time: <u>12/17/23 12:00</u>	TAT Business Days	Field DO	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Standard	X	Field Turb.
Temperature Upon Receipt: <u>6.2</u>	Corrected Temperature	IR gun #:	<u>2</u>	HNO3 lot #:		

S₂

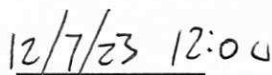
Sample Receipt Checklist

S2 Work Order# 2312141Client: Entrada Client Project ID: Wildhorse 16-13LShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐
☒ ☐ ☐ ☐ ☐
Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 6.2 Thermometer # 2

	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"/>	on file
If custody seals are present, are they intact? ⁽¹⁾	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
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 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 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



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
01/15/24 15:34

BD01@2
2312141-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **12/05/23 11:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Barium	260	0.400		mg/kg dry	1	BGL0604	12/15/23	12/28/23	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/05/23 11:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	89.1			%	1	BGL0625	12/15/23	12/18/23	Calculation	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
01/15/24 15:34

BD02@2
2312141-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **12/05/23 12:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Barium	224	0.400		mg/kg dry	1	BGL0604	12/15/23	12/28/23	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/05/23 12:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	86.2			%	1	BGL0625	12/15/23	12/18/23	Calculation	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
01/15/24 15:34

BD03@3
2312141-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **12/05/23 12:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Barium	241	0.400		mg/kg dry	1	BGL0604	12/15/23	12/28/23	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/05/23 12:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	88.6			%	1	BGL0625	12/15/23	12/18/23	Calculation	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
01/15/24 15:34

BD04@3
2312141-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **12/05/23 12:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Barium	242	0.400		mg/kg dry	1	BGL0604	12/15/23	12/28/23	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/05/23 12:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	89.5			%	1	BGL0625	12/15/23	12/18/23	Calculation	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
01/15/24 15:34

BD05@3
2312141-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **12/05/23 12:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Barium	262	0.400		mg/kg dry	1	BGL0604	12/15/23	12/28/23	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/05/23 12:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	89.4			%	1	BGL0625	12/15/23	12/18/23	Calculation	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
01/15/24 15:34

BD06@3
2312141-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **12/05/23 13:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Barium	267	0.400		mg/kg dry	1	BGL0604	12/15/23	12/28/23	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/05/23 13:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	88.7			%	1	BGL0625	12/15/23	12/18/23	Calculation	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
01/15/24 15:34

SS78@3
2312141-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/05/23 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGL0682	12/19/23	12/21/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **12/05/23 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	272	0.400	mg/kg dry	1	BGL0604	12/15/23	12/28/23	EPA 6020B	

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

Date Sampled: **12/05/23 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	144	0.0500	mg/L dry	1	BGL0934	12/27/23	01/03/24	EPA 6020B	
Magnesium	5.38	0.0500	"	"	"	"	"	"	
Sodium	14.1	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **12/05/23 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.314	0.00100	units	1	BHA0100	01/03/24	01/03/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/05/23 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.7		%	1	BGL0625	12/15/23	12/18/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
01/15/24 15:34

SS78@3
2312141-07 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/05/23 13:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.159	0.0100		mmhos/cm	1	BGL1053	12/29/23	12/29/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
01/15/24 15:34

SS79@3
2312141-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/05/23 13:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BGL0682	12/19/23	12/21/23	EPA 6020B	

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

Date Sampled: **12/05/23 13:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	99.4	0.0500	mg/L dry	1	BGL0934	12/27/23	01/03/24	EPA 6020B	
Magnesium	4.27	0.0500	"	"	"	"	"	"	
Sodium	12.0	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **12/05/23 13:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Sodium Adsorption Ratio	0.320	0.00100	units	1	BHA0100	01/03/24	01/03/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/05/23 13:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
% Solids	84.6		%	1	BGL0625	12/15/23	12/18/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/05/23 13:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Specific Conductance (EC)	0.172	0.0100	mmhos/cm	1	BGL1053	12/29/23	12/29/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
01/15/24 15:34

SS79@3
2312141-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **12/05/23 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Barium	230	0.400		mg/kg dry	1	BHA0226	01/06/24	01/11/24	EPA 6020B	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
01/15/24 15:34

SS80@4
2312141-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/05/23 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGL0682	12/19/23	12/21/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **12/05/23 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	287	0.400	mg/kg dry	1	BGL0604	12/15/23	12/28/23	EPA 6020B	

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

Date Sampled: **12/05/23 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	221	0.0500	mg/L dry	1	BGL0934	12/27/23	01/03/24	EPA 6020B	
Magnesium	8.17	0.0500	"	"	"	"	"	"	
Sodium	15.9	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **12/05/23 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.286	0.00100	units	1	BHA0100	01/03/24	01/03/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/05/23 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.4		%	1	BGL0625	12/15/23	12/18/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
01/15/24 15:34

SS80@4
2312141-09 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/05/23 13:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.154	0.0100		mmhos/cm	1	BGL1053	12/29/23	12/29/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
01/15/24 15:34

SS81@3
2312141-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/05/23 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGL0682	12/19/23	12/21/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **12/05/23 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	310	0.400	mg/kg dry	1	BGL0604	12/15/23	12/28/23	EPA 6020B	

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

Date Sampled: **12/05/23 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	175	0.0500	mg/L dry	1	BGL0934	12/27/23	01/03/24	EPA 6020B	
Magnesium	6.49	0.0500	"	"	"	"	"	"	
Sodium	13.7	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **12/05/23 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.277	0.00100	units	1	BHA0100	01/03/24	01/03/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/05/23 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.3		%	1	BGL0625	12/15/23	12/18/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
01/15/24 15:34

SS81@3
2312141-10 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/05/23 13:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.182	0.0100		mmhos/cm	1	BGL1053	12/29/23	12/29/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
01/15/24 15:34

SS82@3
2312141-11 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/05/23 13:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BGL0682	12/19/23	12/21/23	EPA 6020B	

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

Date Sampled: **12/05/23 13:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	189	0.0500	mg/L dry	1	BGL0934	12/27/23	01/03/24	EPA 6020B	
Magnesium	6.92	0.0500	"	"	"	"	"	"	
Sodium	14.3	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **12/05/23 13:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Sodium Adsorption Ratio	0.278	0.00100	units	1	BHA0100	01/03/24	01/03/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/05/23 13:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
% Solids	88.3		%	1	BGL0625	12/15/23	12/18/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/05/23 13:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Specific Conductance (EC)	0.178	0.0100	mmhos/cm	1	BGL1053	12/29/23	12/29/23	EPA 120.1	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
01/15/24 15:34

SS82@3
2312141-11 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **12/05/23 13:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Barium	210	0.400		mg/kg dry	1	BHA0226	01/06/24	01/11/24	EPA 6020B	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
01/15/24 15:34

BD07@5
2312141-12 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/05/23 13:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	87.7			%	1	BGL0625	12/15/23	12/18/23	Calculation	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
01/15/24 15:34

BD07@5
2312141-12 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **12/05/23 13:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Barium	288	0.400		mg/kg dry	1	BHA0226	01/06/24	01/11/24	EPA 6020B	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
01/15/24 15:34

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 BGL0682 - EPA 3050B

Blank (BGL0682-BLK1)

Prepared: 12/19/23 Analyzed: 12/21/23

Boron ND 2.00 mg/L

LCS (BGL0682-BS1)

Prepared: 12/19/23 Analyzed: 12/21/23

Boron 4.96 2.00 mg/L 5.00 99.1 80-120

Duplicate (BGL0682-DUP1)

Source: 2312141-07

Prepared: 12/19/23 Analyzed: 12/21/23

Boron 0.148 2.00 mg/L 0.149 0.605 20

Matrix Spike (BGL0682-MS1)

Source: 2312141-07

Prepared: 12/19/23 Analyzed: 12/21/23

Boron 5.50 2.00 mg/L 5.00 0.149 107 75-125

Matrix Spike Dup (BGL0682-MSD1)

Source: 2312141-07

Prepared: 12/19/23 Analyzed: 12/21/23

Boron 5.87 2.00 mg/L 5.00 0.149 114 75-125 6.58 25

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
01/15/24 15:34

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGL0604 - EPA 3050B

Blank (BGL0604-BLK1)

Prepared: 12/15/23 Analyzed: 12/28/23

Arsenic	ND	0.200	mg/kg wet
Barium	ND	0.400	"
Cadmium	ND	0.200	"
Copper	ND	0.400	"
Lead	ND	0.200	"
Nickel	ND	0.400	"
Silver	ND	0.0200	"
Zinc	ND	0.400	"
Selenium	ND	0.260	"

LCS (BGL0604-BS1)

Prepared: 12/15/23 Analyzed: 12/28/23

Arsenic	43.7	0.200	mg/kg wet	40.0	109	80-120
Barium	41.7	0.400	"	40.0	104	80-120
Cadmium	2.06	0.200	"	2.00	103	80-120
Copper	44.2	0.400	"	40.0	110	80-120
Lead	20.4	0.200	"	20.0	102	80-120
Nickel	43.2	0.400	"	40.0	108	80-120
Silver	2.09	0.0200	"	2.00	104	80-120
Zinc	43.7	0.400	"	40.0	109	80-120
Selenium	4.22	0.260	"	4.00	105	80-120


Duplicate (BGL0604-DUP1)

Source: 2312141-01

Prepared: 12/15/23 Analyzed: 12/28/23

Arsenic	0.730	0.200	mg/kg dry	0.681	7.00	20
Barium	238	0.400	"	260	8.94	20
Cadmium	0.166	0.200	"	0.185	10.5	20
Copper	1.42	0.400	"	1.19	17.5	20
Lead	8.88	0.200	"	8.93	0.575	20
Nickel	1.17	0.400	"	0.971	18.7	20
Silver	0.0193	0.0200	"	0.0189	2.35	20
Zinc	5.21	0.400	"	4.39	17.1	20
Selenium	ND	0.260	"	ND		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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
01/15/24 15:34

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGL0604 - EPA 3050B

Matrix Spike (BGL0604-MS1)		Source: 2312141-01			Prepared: 12/15/23 Analyzed: 12/28/23					
Arsenic	10.1	0.200	mg/kg dry	44.9	0.681	21.1	75-125			QM-05
Barium	297	0.400	"	44.9	260	82.9	75-125			
Cadmium	2.33	0.200	"	2.24	0.185	95.7	75-125			
Copper	10.8	0.400	"	44.9	1.19	21.4	75-125			QM-05
Lead	27.7	0.200	"	22.4	8.93	83.5	75-125			
Nickel	10.6	0.400	"	44.9	0.971	21.5	75-125			QM-05
Silver	2.11	0.0200	"	2.24	0.0189	93.1	75-125			
Zinc	15.1	0.400	"	44.9	4.39	23.9	75-125			QM-05
Selenium	4.17	0.260	"	4.49	ND	92.8	75-125			

Matrix Spike Dup (BGL0604-MSD1)		Source: 2312141-01			Prepared: 12/15/23 Analyzed: 12/28/23					
Arsenic	10.2	0.200	mg/kg dry	44.9	0.681	21.2	75-125	0.389	25	QM-05
Barium	302	0.400	"	44.9	260	94.1	75-125	1.68	25	
Cadmium	2.34	0.200	"	2.24	0.185	96.2	75-125	0.538	25	
Copper	10.8	0.400	"	44.9	1.19	21.4	75-125	0.183	25	QM-05
Lead	28.1	0.200	"	22.4	8.93	85.6	75-125	1.64	25	
Nickel	10.7	0.400	"	44.9	0.971	21.6	75-125	0.679	25	QM-05
Silver	2.12	0.0200	"	2.24	0.0189	93.7	75-125	0.552	25	
Zinc	15.3	0.400	"	44.9	4.39	24.3	75-125	1.25	25	QM-05
Selenium	4.28	0.260	"	4.49	ND	95.3	75-125	2.59	25	

Batch BHA0226 - EPA 3050B

Blank (BHA0226-BLK1)		Prepared: 01/08/24 Analyzed: 01/11/24								
Arsenic	ND	0.200	mg/kg wet							
Barium	ND	0.400	"							

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
01/15/24 15:34

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHA0226 - EPA 3050B

LCS (BHA0226-BS1)

Prepared: 01/08/24 Analyzed: 01/11/24

Arsenic	40.2	0.200	mg/kg wet	40.0	100	80-120
Barium	41.5	0.400	"	40.0	104	80-120

Duplicate (BHA0226-DUP1)

Source: 2312111-01

Prepared: 01/08/24 Analyzed: 01/11/24

Arsenic	2.33	0.200	mg/kg wet	2.03	13.5	20
Barium	52.7	0.400	"	55.9	5.83	20

Matrix Spike (BHA0226-MS1)

Source: 2312111-01

Prepared: 01/08/24 Analyzed: 01/11/24

Arsenic	39.7	0.200	mg/kg wet	40.0	2.03	94.2	75-125
Barium	93.7	0.400	"	40.0	55.9	94.5	75-125

Matrix Spike Dup (BHA0226-MSD1)

Source: 2312111-01

Prepared: 01/08/24 Analyzed: 01/11/24

Arsenic	39.9	0.200	mg/kg wet	40.0	2.03	94.8	75-125	0.561	25
Barium	93.1	0.400	"	40.0	55.9	92.9	75-125	0.690	25

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
01/15/24 15:34

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

Summit Scientific

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

Batch BGL0934 - General Preparation

Blank (BGL0934-BLK1)

Prepared: 12/27/23 Analyzed: 01/03/24

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

LCS (BGL0934-BS1)

Prepared: 12/27/23 Analyzed: 01/03/24

Calcium	6.36	0.0500	mg/L wet	5.00	127	70-130
Magnesium	5.33	0.0500	"	5.00	107	70-130
Sodium	5.82	0.0500	"	5.00	116	70-130

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction. CO, 81501

Project: Wildhorse 16-13L

Project Number: 023-051
Project Manager: Ryan Finley

Reported:
01/15/24 15:34

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 BGL0625 - General Preparation

Duplicate (BGL0625-DUP1)		Source: 2312141-01			Prepared: 12/15/23 Analyzed: 12/18/23					
% Solids	88.2		%		89.1			1.07	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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
01/15/24 15:34

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 BGL1053 - General Preparation

Blank (BGL1053-BLK1)

Prepared & Analyzed: 12/29/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGL1053-BS1)

Prepared & Analyzed: 12/29/23

Specific Conductance (EC) 0.144 0.0100 mmhos/cm 0.150 95.8 95-105

Duplicate (BGL1053-DUP1)

Source: 2312139-01

Prepared & Analyzed: 12/29/23

Specific Conductance (EC) 2.26 0.0100 mmhos/cm 2.29 1.27 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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction. CO, 81501

Project: Wildhorse 16-13L

Project Number: 023-051
Project Manager: Ryan Finley

Reported:
01/15/24 15:34

Notes and Definitions

QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
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

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

January 19, 2024

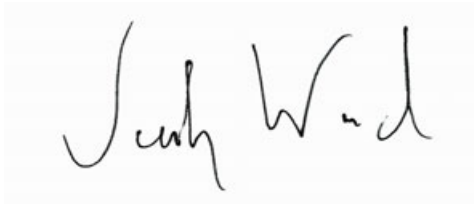
Ryan Finley
Entrada Consulting Group
240 Mesa Avenue
Grand Junction., CO 81501

RE: Wildhorse 16-13L

Work Order #2312142

Enclosed are the results of analyses for samples received by Summit Scientific on 12/07/23 12:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Jacob Wood". The signature is written in a cursive, flowing style.

Jacob Wood For Paul Shrewsbury
President



Entrada Consulting Group
240 Mesa Avenue
Grand Junction. CO, 81501

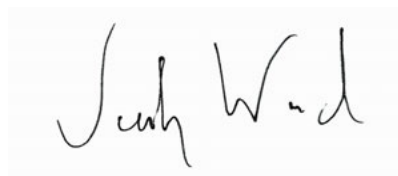
Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
01/19/24 15:47

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS83@3	2312142-01	Soil	12/05/23 14:00	12/07/23 12:00

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

4653 Table Mountain Drive
Golden, CO 80403
303-277-9310

Lab ID	Page 1 of 1
2312142	

Client: <u>Entrada Consulting Group</u>		Send Data To:		Send Invoice To:	
Address: <u>ON File</u>		Project Manager: <u>Ryan Finley</u>		Company: <u>Entrada</u>	
City/State/Zip: <u>ON File</u>		E-Mail: <u>rfinley@entradainc.com</u>		Project Name/Location: <u>Wildhorse 16-13L</u>	
Phone: <u>303-907-0635</u>		Project Name: <u>Wildhorse 16-13L</u>		AFE#:	
Sampler Name: <u>R. Finley</u>		Project Number: <u>023-051</u>		PO/Billing Codes: <u>023-051</u>	
				Contact: <u>shall@entradainc.com</u>	

				Preservative				Matrix				Analysis Requested				Special Instructions					
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	EC	SAR	Boron	Barium					
1	558303	12/5/23	1400	1			X			X			X	X	X	X					Hold
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					
13																					
14																					
15																					

Relinquished by: <u>[Signature]</u>	Date/Time: <u>12/7/23 1200</u>	Received by: <u>[Signature]</u>	Date/Time: <u>12/7/23 12:00</u>	TAT Business Days	Field DO	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Standard	X Field Turb.	
Temperature Upon Receipt: <u>9.1</u>	Corrected Temperature	IR gun #: <u>2</u>	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2312142Client: Entenda Client Project ID: Wildhorse 16-13LShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: _____
☒ ☐ ☐ ☐ ☐
Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 9.1 Thermometer # 2

	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"/>	on fire
If custody seals are present, are they intact? ⁽¹⁾	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
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 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 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.				

W. H. U. d.
Custodian Printed Name

12/7/23 12:00
Date/Time



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
01/19/24 15:47

SS83@3
2312142-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: 12/05/23 14:00									
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHA0598	01/16/24	01/18/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: 12/05/23 14:00									
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	168	0.400	mg/kg dry	1	BHA0605	01/17/24	01/19/24	EPA 6020B	

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

Date Sampled: 12/05/23 14:00									
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	48.8	0.0500	mg/L dry	1	BHA0583	01/16/24	01/17/24	EPA 6020B	
Magnesium	6.85	0.0500	"	"	"	"	"	"	
Sodium	7.93	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 12/05/23 14:00									
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.282	0.00100	units	1	BHA0651	01/18/24	01/18/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 12/05/23 14:00									
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.5		%	1	BHA0581	01/16/24	01/17/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
01/19/24 15:47

SS83@3
2312142-01 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/05/23 14:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.136	0.0100		mmhos/cm	1	BHA0608	01/17/24	01/17/24	EPA 120.1	I-02

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
01/19/24 15:47

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 BHA0598 - EPA 3050B

Blank (BHA0598-BLK1)

Prepared: 01/16/24 Analyzed: 01/18/24

Boron	ND	2.00	mg/L
-------	----	------	------

LCS (BHA0598-BS1)

Prepared: 01/16/24 Analyzed: 01/18/24

Boron	4.73	2.00	mg/L	5.00	94.5	80-120
-------	------	------	------	------	------	--------

Duplicate (BHA0598-DUP1)

Source: 2312142-01

Prepared: 01/16/24 Analyzed: 01/18/24

Boron	0.0412	2.00	mg/L	0.0474	14.1	20
-------	--------	------	------	--------	------	----

Matrix Spike (BHA0598-MS1)

Source: 2312142-01

Prepared: 01/16/24 Analyzed: 01/18/24

Boron	4.57	2.00	mg/L	5.00	0.0474	90.4	75-125
-------	------	------	------	------	--------	------	--------

Matrix Spike Dup (BHA0598-MSD1)

Source: 2312142-01

Prepared: 01/16/24 Analyzed: 01/18/24

Boron	3.78	2.00	mg/L	5.00	0.0474	74.6	75-125	18.9	25	QM-07
-------	------	------	------	------	--------	------	--------	------	----	-------

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
01/19/24 15:47

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHA0605 - EPA 3050B

Blank (BHA0605-BLK1)

Prepared: 01/17/24 Analyzed: 01/19/24

Barium ND 0.400 mg/kg wet

LCS (BHA0605-BS1)

Prepared: 01/17/24 Analyzed: 01/19/24

Barium 34.6 0.400 mg/kg wet 40.0 86.4 80-120

Duplicate (BHA0605-DUP1)

Source: 2311399-07

Prepared: 01/17/24 Analyzed: 01/19/24

Barium 86.1 0.400 mg/kg dry 116 29.9 20 QR-04

Matrix Spike (BHA0605-MS1)

Source: 2311399-07

Prepared: 01/17/24 Analyzed: 01/19/24

Barium 95.1 0.400 mg/kg dry 43.0 116 NR 75-125 QM-07

Matrix Spike Dup (BHA0605-MSD1)

Source: 2311399-07

Prepared: 01/17/24 Analyzed: 01/19/24

Barium 92.9 0.400 mg/kg dry 43.0 116 NR 75-125 2.43 25 QM-07

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
01/19/24 15:47

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

Summit Scientific

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

Batch BHA0583 - General Preparation

Blank (BHA0583-BLK1)

Prepared: 01/16/24 Analyzed: 01/17/24

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

LCS (BHA0583-BS1)

Prepared: 01/16/24 Analyzed: 01/17/24

Calcium	5.57	0.0500	mg/L wet	5.00	111	70-130
Magnesium	5.36	0.0500	"	5.00	107	70-130
Sodium	5.34	0.0500	"	5.00	107	70-130

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction. CO, 81501

Project: Wildhorse 16-13L

Project Number: 023-051
Project Manager: Ryan Finley

Reported:
01/19/24 15:47

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 BHA0581 - General Preparation

Duplicate (BHA0581-DUP1)

Source: 2311618-01

Prepared: 01/16/24 Analyzed: 01/17/24

% Solids	93.1	%	92.2	0.942	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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L
Project Number: 023-051
Project Manager: Ryan Finley

Reported:
01/19/24 15:47

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 BHA0608 - General Preparation

Blank (BHA0608-BLK1)

Prepared & Analyzed: 01/17/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHA0608-BS1)

Prepared & Analyzed: 01/17/24

Specific Conductance (EC) 0.150 0.0100 mmhos/cm 0.150 100 95-105

Duplicate (BHA0608-DUP1)

Source: 2312142-01

Prepared & Analyzed: 01/17/24

Specific Conductance (EC) 0.136 0.0100 mmhos/cm 0.136 0.442 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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Wildhorse 16-13L

Project Number: 023-051
Project Manager: Ryan Finley

Reported:
01/19/24 15:47

Notes and Definitions

QR-04	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
I-02	This sample was analyzed outside of the recommended holding time.
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

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

April 09, 2021

Ben Baugh
Entrada Consulting Group
240 Mesa Avenue
Grand Junction., CO 81501
RE: Tallgrass Wildhorse
Work Order #2103462

Enclosed are the results of analyses for samples received by Summit Scientific on 03/30/21 14:25. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', written in a cursive style.

Paul Shrewsbury
President



Entrada Consulting Group
240 Mesa Avenue
Grand Junction. CO, 81501

Project: Tallgrass Wildhorse
Project Number: [none]
Project Manager: Ben Baugh

Reported:
04/09/21 08:24

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WS1-1	2103462-01	Soil	03/30/21 11:00	03/30/21 14:25
BS1-1	2103462-02	Soil	03/30/21 11:10	03/30/21 14:25
BS2-1	2103462-03	Soil	03/30/21 11:20	03/30/21 14:25
BS-Pad	2103462-04	Soil	03/30/21 11:30	03/30/21 14:25

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

2103462

S₂

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310

Page 1 of 1

Client: Entrada Consulting Group

Project Manager: Ben Baugh

Address:

E-Mail: bbaugh@entradainc.com

City/State/Zip:

Phone: 804-513-0707

Project Name: Tallgrass Wildhorse

Sampler Name: Ben Baugh

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	Full Table 915	pH, EC, SAR	Boron	Arsenic				
1	WS1-1	3/30/21	1100	5			X			X					X					915 methods
2	BS1-1	↓	1110	4			↓								X	X	X			
3	BS2-1	↓	1120	4			↓								X	X	X			
4	BS-PAD	↓	1130	4			↓								X	X	X			
5																				
6																				
7																				
8																				
9																				
10																				

Relinquished by: <u>Ben Baugh</u>	Date/Time: <u>3/30 1425</u>	Received by: <u>[Signature]</u>	Date/Time: <u>3.30.21 1425</u>	Turn Around Time (Check)	Notes: <u>send partial results as needed</u>
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day <input type="checkbox"/> 72 hours 24 hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 48 hours <input type="checkbox"/>	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity: <u>8.1</u> Temperature Upon Receipt: <u>8.1</u> Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No	
Relinquished by:	Date/Time:	Received by:	Date/Time:		

Sample Receipt Checklist

S2 Work Order 2103462

Client: Entrada Client Project ID: Tallgrass Wildhorse

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other Airbill #: _____

☒ ☐ ☐ ☐ ☐

Matrix (check all that apply): ☐ Air ☒ Soil/Solid ☐ Water ☐ Other: _____
(Describe)

Temp (°C)	<u>8.1</u>
-----------	------------

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ? NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>on ice</u>
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"/>	
If custody seals are present, are they intact ⁽¹⁾ ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples with holding times due within 48 hours sample due within 48 hours present?	<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"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded ⁽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 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, H2SO4, NaOH, HNO3, ect	<input 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.				

AT
Custodian Printed Name or Initials

[Signature]
Signature of Custodian

3.30.21
Date/Time



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Tallgrass Wildhorse
Project Number: [none]
Project Manager: Ben Baugh

Reported:
04/09/21 08:24

WS1-1
2103462-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/30/21 11:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	22	0.20	mg/kg	100	BED0028	04/02/21	04/03/21	EPA 8260B	
Toluene	74	0.50	"	"	"	"	"	"	
Ethylbenzene	43	0.50	"	"	"	"	"	"	
Xylenes (total)	120	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	50	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	12	0.50	"	"	"	"	"	"	
Naphthalene	15	0.38	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	4200	50	"	"	"	"	"	"	

Date Sampled: **03/30/21 11:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		60.2 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		76.0 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		176 %	21-167		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/30/21 11:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	36000	500	mg/kg	10	BED0001	04/01/21	04/03/21	EPA 8015M	
C28-C36 (ORO)	6200	50	"	1	"	"	"	"	

Date Sampled: **03/30/21 11:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl		1120 %	30-150		"	"	"	"	S-02

PAH by EPA Method 8270D SIM

R-01

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Tallgrass Wildhorse
Project Number: [none]
Project Manager: Ben Baugh

Reported:
04/09/21 08:24

WS1-1
2103462-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

R-01

Date Sampled: **03/30/21 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	0.731	0.0500	mg/kg	10	BEC0542	03/31/21	04/01/21	EPA 8270D SIM	
Anthracene	3.21	0.500	"	100	"	"	"	"	
Benzo (a) anthracene	ND	0.0500	"	10	"	"	"	"	
Benzo (a) pyrene	ND	0.0500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.0500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.0500	"	"	"	"	"	"	
Chrysene	0.538	0.0500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.0500	"	"	"	"	"	"	
Fluoranthene	0.0770	0.0500	"	"	"	"	"	"	
Fluorene	1.12	0.500	"	100	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.0500	"	10	"	"	"	"	
Pyrene	0.186	0.0500	"	"	"	"	"	"	
1-Methylnaphthalene	11.2	0.500	"	100	"	"	"	"	
2-Methylnaphthalene	11.8	0.500	"	"	"	"	"	"	

Date Sampled: **03/30/21 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		240 %	40-150		"	"	"	"	S-02
Surrogate: Fluoranthene-d10		299 %	40-150		"	"	"	"	S-02

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/30/21 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.311	0.0100	mg/L	1	BED0051	04/05/21	04/05/21	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/30/21 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Tallgrass Wildhorse
Project Number: [none]
Project Manager: Ben Baugh

Reported:
04/09/21 08:24

WS1-1
2103462-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.98	0.228	mg/kg dry	1	BED0039	04/02/21	04/03/21	EPA 6020B
Barium	171	0.457	"	"	"	"	"	"
Cadmium	ND	0.228	"	"	"	"	"	"
Copper	6.52	0.457	"	"	"	"	"	"
Lead	5.06	0.228	"	"	"	"	"	"
Nickel	4.26	0.457	"	"	"	"	"	"
Selenium	0.900	0.297	"	"	"	"	"	"
Silver	0.0302	0.0228	"	"	"	"	"	"
Zinc	44.4	0.457	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/30/21 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BEC0533	03/31/21	04/01/21	EPA 7196A	

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

Date Sampled: **03/30/21 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	131	0.0571	mg/L dry	1	BED0084	04/06/21	04/08/21	EPA 6020B	
Magnesium	24.5	0.0571	"	"	"	"	"	"	
Sodium	57.9	0.0571	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/30/21 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.22	0.100	units	1	BED0149	04/08/21	04/08/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/30/21 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Tallgrass Wildhorse
Project Number: [none]
Project Manager: Ben Baugh

Reported:
04/09/21 08:24

WS1-1
2103462-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	87.5	%	1	BED0014	04/01/21	04/02/21	Calculation
----------	------	---	---	---------	----------	----------	-------------

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/30/21 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.26	0.0100	mmhos/cm	1	BED0119	04/07/21	04/07/21	EPA 120.1	

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

Date Sampled: **03/30/21 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.32		pH Units	1	BED0120	04/07/21	04/07/21	EPA 9045D	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Tallgrass Wildhorse
Project Number: [none]
Project Manager: Ben Baugh

Reported:
04/09/21 08:24

BS1-1
2103462-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/30/21 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0916	0.0100	mg/L	1	BED0051	04/05/21	04/06/21	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/30/21 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.43	0.200	mg/kg dry	1	BED0039	04/02/21	04/03/21	EPA 6020B	

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

Date Sampled: **03/30/21 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	63.0	0.0569	mg/L dry	1	BED0084	04/06/21	04/08/21	EPA 6020B	
Magnesium	13.7	0.0569	"	"	"	"	"	"	
Sodium	20.4	0.0569	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/30/21 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.607	0.100	units	1	BED0149	04/08/21	04/08/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/30/21 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.9		%	1	BED0014	04/01/21	04/02/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Tallgrass Wildhorse
Project Number: [none]
Project Manager: Ben Baugh

Reported:
04/09/21 08:24

BS1-1
2103462-02 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/30/21 11:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.510	0.0100		mmhos/cm	1	BED0119	04/07/21	04/07/21	EPA 120.1	

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

Date Sampled: **03/30/21 11:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.49			pH Units	1	BED0120	04/07/21	04/07/21	EPA 9045D	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Tallgrass Wildhorse
Project Number: [none]
Project Manager: Ben Baugh

Reported:
04/09/21 08:24

BS2-1
2103462-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/30/21 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.224	0.0100	mg/L	1	BED0051	04/05/21	04/06/21	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/30/21 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.61	0.200	mg/kg dry	1	BED0039	04/02/21	04/03/21	EPA 6020B	

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

Date Sampled: **03/30/21 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	71.2	0.0607	mg/L dry	1	BED0084	04/06/21	04/08/21	EPA 6020B	
Magnesium	10.3	0.0607	"	"	"	"	"	"	
Sodium	11.9	0.0607	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/30/21 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.349	0.100	units	1	BED0149	04/08/21	04/08/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/30/21 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.4		%	1	BED0014	04/01/21	04/02/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Tallgrass Wildhorse
Project Number: [none]
Project Manager: Ben Baugh

Reported:
04/09/21 08:24

BS2-1
2103462-03 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/30/21 11:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.469	0.0100		mmhos/cm	1	BED0119	04/07/21	04/07/21	EPA 120.1	

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

Date Sampled: **03/30/21 11:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.30			pH Units	1	BED0120	04/07/21	04/07/21	EPA 9045D	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Tallgrass Wildhorse
Project Number: [none]
Project Manager: Ben Baugh

Reported:
04/09/21 08:24

BS-Pad
2103462-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/30/21 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.574	0.0100	mg/L	1	BED0051	04/05/21	04/06/21	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/30/21 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.30	0.200	mg/kg dry	1	BED0039	04/02/21	04/03/21	EPA 6020B	

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

Date Sampled: **03/30/21 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	86.0	0.0557	mg/L dry	1	BED0084	04/06/21	04/08/21	EPA 6020B	
Magnesium	18.5	0.0557	"	"	"	"	"	"	
Sodium	231	0.0557	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/30/21 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.89	0.100	units	1	BED0149	04/08/21	04/08/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/30/21 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.7		%	1	BED0014	04/01/21	04/02/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Tallgrass Wildhorse
Project Number: [none]
Project Manager: Ben Baugh

Reported:
04/09/21 08:24

BS-Pad
2103462-04 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/30/21 11:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	1.78	0.0100		mmhos/cm	1	BED0119	04/07/21	04/07/21	EPA 120.1	

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

Date Sampled: **03/30/21 11:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.35			pH Units	1	BED0120	04/07/21	04/07/21	EPA 9045D	

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Tallgrass Wildhorse
Project Number: [none]
Project Manager: Ben Baugh

Reported:
04/09/21 08:24

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 BED0028 - EPA 5030 Soil MS

Blank (BED0028-BLK1)

Prepared: 04/02/21 Analyzed: 04/03/21

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	0.0275		"	0.0400		68.8	23-173			
Surrogate: Toluene-d8	0.0453		"	0.0400		113	20-170			
Surrogate: 4-Bromofluorobenzene	0.0414		"	0.0400		103	21-167			

LCS (BED0028-BS1)

Prepared: 04/02/21 Analyzed: 04/03/21

Benzene	0.0785	0.0020	mg/kg	0.100		78.5	70-130			
Toluene	0.105	0.0050	"	0.100		105	70-130			
Ethylbenzene	0.102	0.0050	"	0.100		102	70-130			
m,p-Xylene	0.183	0.010	"	0.200		91.6	70-130			
o-Xylene	0.0907	0.0050	"	0.100		90.7	70-130			
1,2,4-Trimethylbenzene	0.0928	0.0050	"	0.100		92.8	70-130			
1,3,5-Trimethylbenzene	0.0903	0.0050	"	0.100		90.3	70-130			
Naphthalene	0.0824	0.0038	"	0.100		82.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0226		"	0.0400		56.6	23-173			
Surrogate: Toluene-d8	0.0440		"	0.0400		110	20-170			
Surrogate: 4-Bromofluorobenzene	0.0391		"	0.0400		97.8	21-167			

Matrix Spike (BED0028-MS1)

Source: 2103426-01

Prepared: 04/02/21 Analyzed: 04/03/21

Benzene	0.0815	0.0020	mg/kg	0.100	ND	81.5	70-130			
Toluene	0.0938	0.0050	"	0.100	ND	93.8	70-130			
Ethylbenzene	0.0950	0.0050	"	0.100	ND	95.0	70-130			
m,p-Xylene	0.167	0.010	"	0.200	ND	83.7	70-130			
o-Xylene	0.0848	0.0050	"	0.100	ND	84.8	70-130			
1,2,4-Trimethylbenzene	0.0874	0.0050	"	0.100	ND	87.4	70-130			
1,3,5-Trimethylbenzene	0.0826	0.0050	"	0.100	ND	82.6	70-130			
Naphthalene	0.0890	0.0038	"	0.100	ND	89.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0297		"	0.0400		74.2	23-173			
Surrogate: Toluene-d8	0.0411		"	0.0400		103	20-170			
Surrogate: 4-Bromofluorobenzene	0.0391		"	0.0400		97.8	21-167			

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Tallgrass Wildhorse
Project Number: [none]
Project Manager: Ben Baugh

Reported:
04/09/21 08:24

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 BED0028 - EPA 5030 Soil MS

Matrix Spike Dup (BED0028-MSD1)		Source: 2103426-01			Prepared: 04/02/21 Analyzed: 04/03/21					
Benzene	0.0784	0.0020	mg/kg	0.100	ND	78.4	70-130	3.98	30	
Toluene	0.0798	0.0050	"	0.100	ND	79.8	70-130	16.1	30	
Ethylbenzene	0.0867	0.0050	"	0.100	ND	86.7	70-130	9.18	30	
m,p-Xylene	0.154	0.010	"	0.200	ND	77.2	70-130	8.17	30	
o-Xylene	0.0780	0.0050	"	0.100	ND	78.0	70-130	8.33	30	
1,2,4-Trimethylbenzene	0.0804	0.0050	"	0.100	ND	80.4	70-130	8.40	30	
1,3,5-Trimethylbenzene	0.0765	0.0050	"	0.100	ND	76.5	70-130	7.58	30	
Naphthalene	0.0874	0.0038	"	0.100	ND	87.4	70-130	1.84	30	
<hr/>										
Surrogate: 1,2-Dichloroethane-d4	0.0274		"	0.0400		68.6	23-173			
Surrogate: Toluene-d8	0.0402		"	0.0400		100	20-170			
Surrogate: 4-Bromofluorobenzene	0.0384		"	0.0400		96.1	21-167			

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction. CO, 81501

Project: Tallgrass Wildhorse
Project Number: [none]
Project Manager: Ben Baugh

Reported:
04/09/21 08:24

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BED0001 - EPA 3550A

Blank (BED0001-BLK1)

Prepared: 04/01/21 Analyzed: 04/03/21

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

LCS (BED0001-BS1)

Prepared: 04/01/21 Analyzed: 04/03/21

C10-C28 (DRO)	495	50	mg/kg	500	99.0	70-130
---------------	-----	----	-------	-----	------	--------

Matrix Spike (BED0001-MS1)

Source: 2103403-01

Prepared: 04/01/21 Analyzed: 04/03/21

C10-C28 (DRO)	487	50	mg/kg	500	13.4	94.7	70-130
---------------	-----	----	-------	-----	------	------	--------

Matrix Spike Dup (BED0001-MSD1)

Source: 2103403-01

Prepared: 04/01/21 Analyzed: 04/03/21

C10-C28 (DRO)	477	50	mg/kg	500	13.4	92.6	70-130	2.16	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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Tallgrass Wildhorse
Project Number: [none]
Project Manager: Ben Baugh

Reported:
04/09/21 08:24

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	Notes

Batch BEC0542 - EPA 5030 Soil MS

Blank (BEC0542-BLK1)

Prepared & Analyzed: 03/31/21

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	0.0356	"	0.0333	107	40-150
Surrogate: Fluoranthene-d10	0.0342	"	0.0333	102	40-150

LCS (BEC0542-BS1)

Prepared & Analyzed: 03/31/21

Acenaphthene	0.0340	0.00500	mg/kg	0.0333	102	31-137
Anthracene	0.0334	0.00500	"	0.0333	100	30-120
Benzo (a) anthracene	0.0337	0.00500	"	0.0333	101	30-120
Benzo (a) pyrene	0.0345	0.00500	"	0.0333	103	30-120
Benzo (b) fluoranthene	0.0352	0.00500	"	0.0333	106	30-120
Benzo (k) fluoranthene	0.0323	0.00500	"	0.0333	96.9	30-120
Chrysene	0.0332	0.00500	"	0.0333	99.6	30-120
Dibenz (a,h) anthracene	0.0346	0.00500	"	0.0333	104	30-120
Fluoranthene	0.0254	0.00500	"	0.0333	76.3	30-120
Fluorene	0.0258	0.00500	"	0.0333	77.3	30-120
Indeno (1,2,3-cd) pyrene	0.0340	0.00500	"	0.0333	102	30-120
Pyrene	0.0267	0.00500	"	0.0333	80.2	35-142
1-Methylnaphthalene	0.0328	0.00500	"	0.0333	98.4	35-142
2-Methylnaphthalene	0.0334	0.00500	"	0.0333	100	35-142

Surrogate: 2-Methylnaphthalene-d10	0.0372	"	0.0333	112	40-150
Surrogate: Fluoranthene-d10	0.0352	"	0.0333	106	40-150

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Tallgrass Wildhorse
Project Number: [none]
Project Manager: Ben Baugh

Reported:
04/09/21 08:24

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	Notes

Batch BEC0542 - EPA 5030 Soil MS

Matrix Spike (BEC0542-MS1)

Source: 2103403-01

Prepared: 03/31/21 Analyzed: 04/01/21

Acenaphthene	0.0370	0.00500	mg/kg	0.0333	ND	111	31-137		
Anthracene	0.0361	0.00500	"	0.0333	ND	108	30-120		
Benzo (a) anthracene	0.0349	0.00500	"	0.0333	ND	105	30-120		
Benzo (a) pyrene	0.0365	0.00500	"	0.0333	ND	109	30-120		
Benzo (b) fluoranthene	0.0371	0.00500	"	0.0333	ND	111	30-120		
Benzo (k) fluoranthene	0.0344	0.00500	"	0.0333	ND	103	30-120		
Chrysene	0.0352	0.00500	"	0.0333	ND	106	30-120		
Dibenz (a,h) anthracene	0.0371	0.00500	"	0.0333	ND	111	30-120		
Fluoranthene	0.0279	0.00500	"	0.0333	ND	83.7	30-120		
Fluorene	0.0296	0.00500	"	0.0333	ND	88.8	30-120		
Indeno (1,2,3-cd) pyrene	0.0365	0.00500	"	0.0333	ND	110	30-120		
Pyrene	0.0277	0.00500	"	0.0333	ND	83.1	35-142		
1-Methylnaphthalene	0.0358	0.00500	"	0.0333	ND	107	15-130		
2-Methylnaphthalene	0.0371	0.00500	"	0.0333	ND	111	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0329		"	0.0333		98.8	40-150		
Surrogate: Fluoranthene-d10	0.0329		"	0.0333		98.8	40-150		

Matrix Spike Dup (BEC0542-MSD1)

Source: 2103403-01

Prepared: 03/31/21 Analyzed: 04/01/21

Acenaphthene	0.0361	0.00500	mg/kg	0.0333	ND	108	31-137	2.34	30
Anthracene	0.0354	0.00500	"	0.0333	ND	106	30-120	1.80	30
Benzo (a) anthracene	0.0341	0.00500	"	0.0333	ND	102	30-120	2.25	30
Benzo (a) pyrene	0.0363	0.00500	"	0.0333	ND	109	30-120	0.412	30
Benzo (b) fluoranthene	0.0371	0.00500	"	0.0333	ND	111	30-120	0.0458	30
Benzo (k) fluoranthene	0.0339	0.00500	"	0.0333	ND	102	30-120	1.56	30
Chrysene	0.0345	0.00500	"	0.0333	ND	103	30-120	2.21	30
Dibenz (a,h) anthracene	0.0363	0.00500	"	0.0333	ND	109	30-120	2.17	30
Fluoranthene	0.0269	0.00500	"	0.0333	ND	80.6	30-120	3.80	30
Fluorene	0.0296	0.00500	"	0.0333	ND	88.7	30-120	0.110	30
Indeno (1,2,3-cd) pyrene	0.0360	0.00500	"	0.0333	ND	108	30-120	1.58	30
Pyrene	0.0271	0.00500	"	0.0333	ND	81.3	35-142	2.25	30
1-Methylnaphthalene	0.0348	0.00500	"	0.0333	ND	105	15-130	2.62	50
2-Methylnaphthalene	0.0350	0.00500	"	0.0333	ND	105	15-130	5.83	50
Surrogate: 2-Methylnaphthalene-d10	0.0371		"	0.0333		111	40-150		
Surrogate: Fluoranthene-d10	0.0353		"	0.0333		106	40-150		

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Tallgrass Wildhorse
Project Number: [none]
Project Manager: Ben Baugh

Reported:
04/09/21 08:24

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 BED0051 - EPA 3050B

Blank (BED0051-BLK1)

Prepared & Analyzed: 04/05/21

Boron ND 0.0100 mg/L

LCS (BED0051-BS1)

Prepared & Analyzed: 04/05/21

Boron 5.35 0.0100 mg/L 5.00 107 80-120

Duplicate (BED0051-DUP1)

Source: 2103403-16

Prepared & Analyzed: 04/05/21

Boron 0.128 0.0100 mg/L 0.133 3.49 20

Matrix Spike (BED0051-MS1)

Source: 2103403-16

Prepared & Analyzed: 04/05/21

Boron 4.97 0.0100 mg/L 5.00 0.133 96.7 75-125

Matrix Spike Dup (BED0051-MSD1)

Source: 2103403-16

Prepared & Analyzed: 04/05/21

Boron 5.33 0.0100 mg/L 5.00 0.133 104 75-125 7.02 25

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Tallgrass Wildhorse
Project Number: [none]
Project Manager: Ben Baugh

Reported:
04/09/21 08:24

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BED0039 - EPA 3050B

Blank (BED0039-BLK1)

Prepared: 04/02/21 Analyzed: 04/03/21

Arsenic	ND	0.200	mg/kg wet
Arsenic	ND	0.200	"
Barium	ND	0.400	"
Cadmium	ND	0.200	"
Copper	ND	0.400	"
Lead	ND	0.200	"
Nickel	ND	0.400	"
Selenium	ND	0.260	"
Silver	ND	0.0200	"
Zinc	ND	0.400	"

LCS (BED0039-BS1)

Prepared: 04/02/21 Analyzed: 04/03/21

Arsenic	43.1	0.200	mg/kg wet	40.0	108	80-120
Arsenic	43.1	0.200	"	40.0	108	80-120
Barium	35.3	0.400	"	40.0	88.2	80-120
Cadmium	1.96	0.200	"	2.00	97.8	80-120
Copper	36.3	0.400	"	40.0	90.6	80-120
Lead	16.1	0.200	"	20.0	80.6	80-120
Nickel	37.2	0.400	"	40.0	93.0	80-120
Selenium	3.91	0.260	"	4.00	97.8	80-120
Silver	1.82	0.0200	"	2.00	90.9	80-120
Zinc	45.0	0.400	"	40.0	112	80-120

Duplicate (BED0039-DUP1)

Source: 2102086-05

Prepared: 04/02/21 Analyzed: 04/03/21

Arsenic	7.45	0.226	mg/kg dry	7.99	7.03	30
Arsenic	7.45	0.200	"	7.99	7.03	20
Barium	164	0.452	"	156	4.50	30
Cadmium	0.198	0.226	"	0.224	12.4	30
Copper	9.15	0.452	"	10.8	16.3	30
Lead	7.76	0.226	"	8.45	8.55	30
Nickel	10.4	0.452	"	13.3	24.5	30
Selenium	1.07	0.294	"	1.12	4.57	30
Silver	0.0619	0.0226	"	0.0737	17.4	30
Zinc	43.7	0.452	"	48.9	11.1	30

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Tallgrass Wildhorse
Project Number: [none]
Project Manager: Ben Baugh

Reported:
04/09/21 08:24

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BED0039 - EPA 3050B

Matrix Spike (BED0039-MS1)

Source: 2102086-05

Prepared: 04/02/21 Analyzed: 04/03/21

Arsenic	54.6	0.226	mg/kg dry	45.2	7.99	103	75-125
Arsenic	54.6	0.200	"	45.2	7.99	103	75-125
Barium	198	0.452	"	45.2	156	91.1	75-125
Cadmium	2.16	0.226	"	2.26	0.224	85.6	75-125
Copper	50.0	0.452	"	45.2	10.8	86.8	75-125
Lead	26.9	0.226	"	22.6	8.45	81.5	75-125
Nickel	53.6	0.452	"	45.2	13.3	89.1	75-125
Selenium	4.57	0.294	"	4.52	1.12	76.2	75-125
Silver	1.90	0.0226	"	2.26	0.0737	80.7	75-125
Zinc	93.8	0.452	"	45.2	48.9	99.2	75-125

Matrix Spike Dup (BED0039-MSD1)

Source: 2102086-05

Prepared: 04/02/21 Analyzed: 04/03/21

Arsenic	53.9	0.200	mg/kg dry	45.2	7.99	101	75-125	1.42	25
Arsenic	53.9	0.226	"	45.2	7.99	101	75-125	1.42	25
Barium	195	0.452	"	45.2	156	84.6	75-125	1.52	25
Cadmium	2.27	0.226	"	2.26	0.224	90.6	75-125	5.17	25
Copper	49.6	0.452	"	45.2	10.8	85.8	75-125	0.901	25
Lead	27.0	0.226	"	22.6	8.45	81.9	75-125	0.321	25
Nickel	51.9	0.452	"	45.2	13.3	85.5	75-125	3.13	25
Selenium	4.60	0.294	"	4.52	1.12	76.9	75-125	0.655	25
Silver	1.99	0.0226	"	2.26	0.0737	84.5	75-125	4.42	25
Zinc	95.0	0.452	"	45.2	48.9	102	75-125	1.26	25

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Tallgrass Wildhorse
Project Number: [none]
Project Manager: Ben Baugh

Reported:
04/09/21 08:24

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BEC0533 - 3060A Mod

Blank (BEC0533-BLK1)

Prepared & Analyzed: 03/31/21

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BEC0533-BS1)

Prepared & Analyzed: 03/31/21

Chromium, Hexavalent 22.9 0.30 mg/kg wet 25.0 91.6 80-120

Duplicate (BEC0533-DUP1)

Source: 2103394-01

Prepared & Analyzed: 03/31/21

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BEC0533-MS1)

Source: 2103394-01

Prepared & Analyzed: 03/31/21

Chromium, Hexavalent 25.9 0.30 mg/kg dry 29.1 ND 89.0 75-125

Matrix Spike Dup (BEC0533-MSD1)

Source: 2103394-01

Prepared & Analyzed: 03/31/21

Chromium, Hexavalent 25.8 0.30 mg/kg dry 29.1 ND 88.8 75-125 0.225 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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Tallgrass Wildhorse
Project Number: [none]
Project Manager: Ben Baugh

Reported:
04/09/21 08:24

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

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

Batch BED0084 - General Preparation

Blank (BED0084-BLK1)

Prepared: 04/06/21 Analyzed: 04/08/21

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

LCS (BED0084-BS1)

Prepared: 04/06/21 Analyzed: 04/08/21

Calcium	5.70	0.0500	mg/L wet	5.00	114	70-130
Magnesium	6.43	0.0500	"	5.00	129	70-130
Sodium	5.97	0.0500	"	5.00	119	70-130

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Tallgrass Wildhorse

Project Number: [none]

Project Manager: Ben Baugh

Reported:
04/09/21 08:24

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 BED0014 - General Preparation

Duplicate (BED0014-DUP1)		Source: 2102086-05		Prepared: 04/01/21 Analyzed: 04/02/21	
% Solids	89.2		%	88.4	0.939 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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Tallgrass Wildhorse
Project Number: [none]
Project Manager: Ben Baugh

Reported:
04/09/21 08:24

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 BED0119 - General Preparation

Blank (BED0119-BLK1)

Prepared & Analyzed: 04/07/21

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BED0119-BS1)

Prepared & Analyzed: 04/07/21

Specific Conductance (EC) 0.150 0.0100 mmhos/cm 0.150 99.7 90-110

Duplicate (BED0119-DUP1)

Source: 2103289-01

Prepared & Analyzed: 04/07/21

Specific Conductance (EC) 0.387 0.0100 mmhos/cm 0.386 0.155 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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Tallgrass Wildhorse
Project Number: [none]
Project Manager: Ben Baugh

Reported:
04/09/21 08:24

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

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

Batch BED0120 - General Preparation

LCS (BED0120-BS1)

Prepared & Analyzed: 04/07/21

pH	9.29	pH Units	9.21	101	95-105
----	------	----------	------	-----	--------

Duplicate (BED0120-DUP1)

Source: 2103289-01

Prepared & Analyzed: 04/07/21

pH	8.12	pH Units	8.09	0.370	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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction. CO, 81501

Project: Tallgrass Wildhorse
Project Number: [none]
Project Manager: Ben Baugh

Reported:
04/09/21 08:24

Notes and Definitions

S-02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
R-01	The Reporting Limit for this analyte has been raised to account for matrix interference.
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