

Miller 44-20 FL

SESE Sec. 20-T3N-R66W

Facility ID: 473032

Remediation Project #: 26441

Form 19 Data Package

April 2023

Prepared by Tasman, Inc.



On behalf of Crestone Peak Resources Operating, LLC



PHOTO LOG



Equipment ID:		Equipment Type:	
Material:	Volume:	Contents:	
Notes/Conditions: Soil screening location, facing NW			

Equipment ID:		Equipment Type:	
Material:	Volume:	Contents:	
Notes/Conditions: Soil screening location, facing NW			



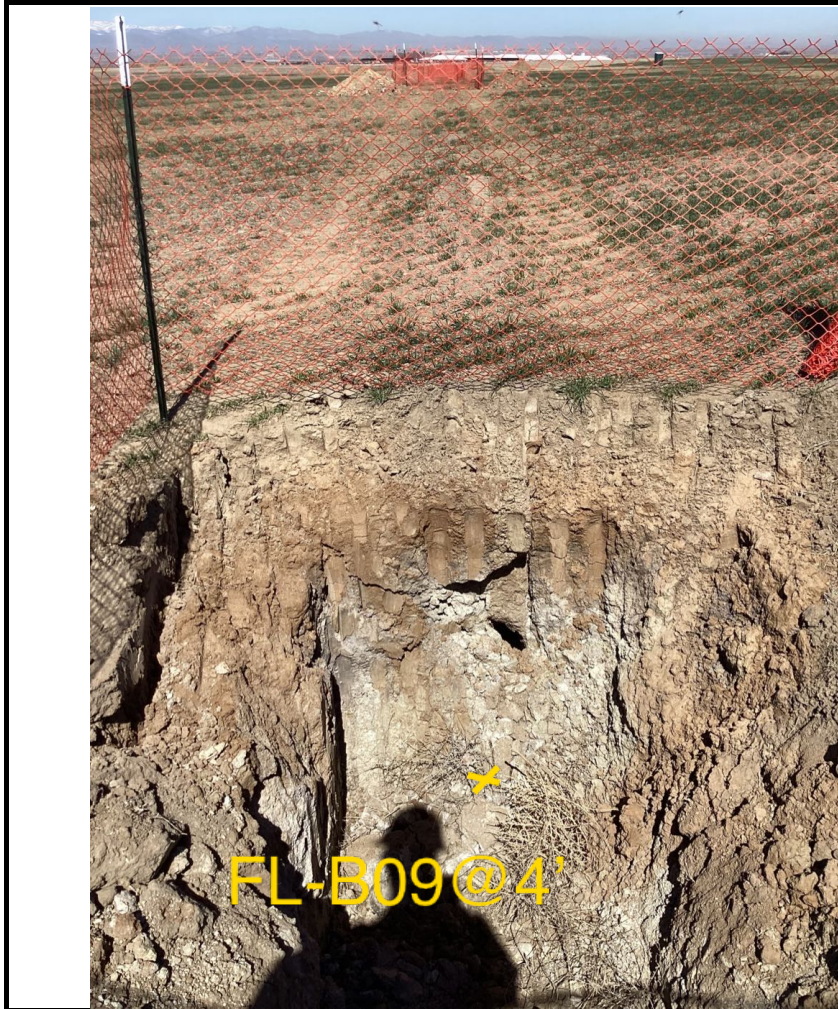
Equipment ID:		Equipment Type:	
Material:	Volume:	Contents:	
Notes/Conditions: Soil screening location, facing NW			

Equipment ID:		Equipment Type:	
Material:	Volume:	Contents:	
Notes/Conditions: Soil screening location, facing NW			



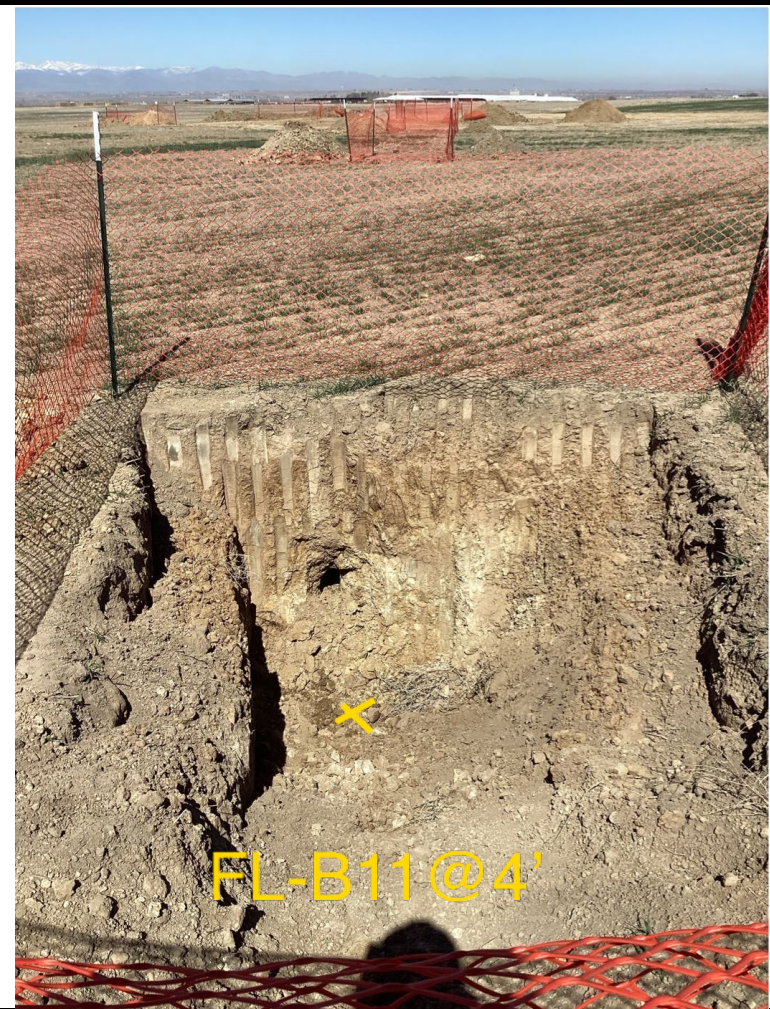
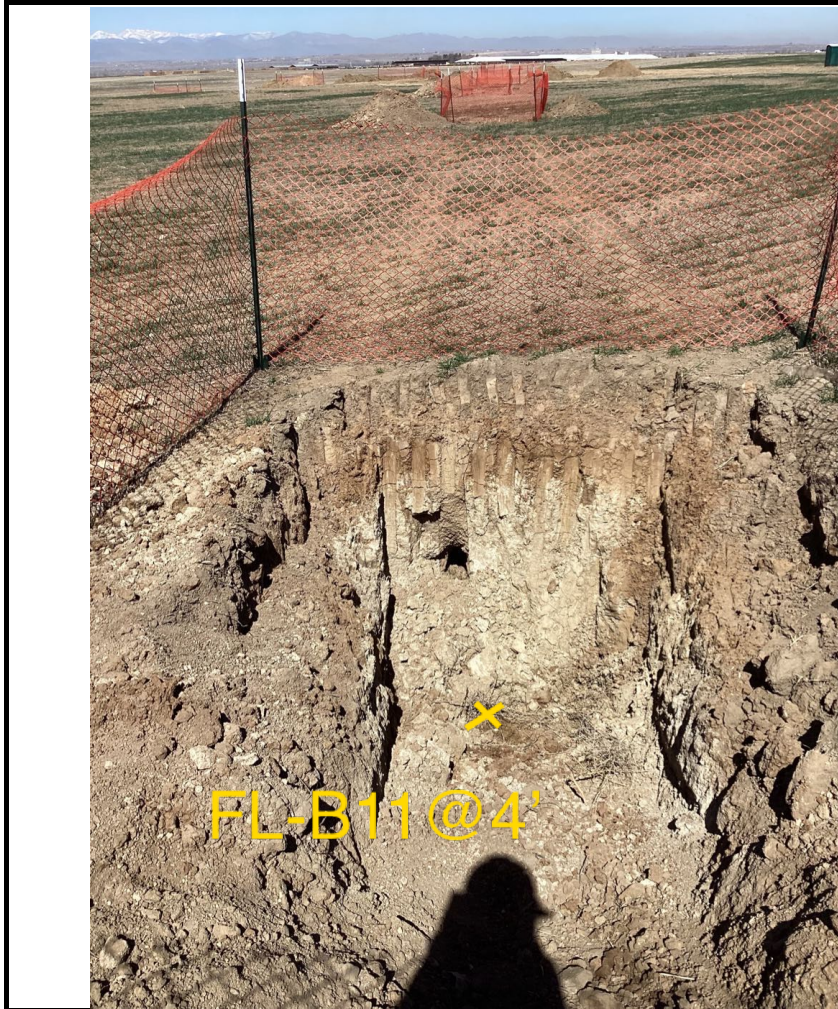
Equipment ID:		Equipment Type:	
Material:	Volume:	Contents:	
Notes/Conditions: Soil screening location, facing NW			

Equipment ID:		Equipment Type:	
Material:	Volume:	Contents:	
Notes/Conditions: Soil screening location, facing NW			



Equipment ID:		Equipment Type:	
Material:	Volume:	Contents:	
Notes/Conditions: Soil screening location, facing NW			

Equipment ID:		Equipment Type:	
Material:	Volume:	Contents:	
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Equipment ID:		Equipment Type:	
Material:	Volume:	Contents:	
Notes/Conditions: Soil screening location, facing NW			

Equipment ID:		Equipment Type:	
Material:	Volume:	Contents:	
Notes/Conditions: Soil screening location, facing NW			



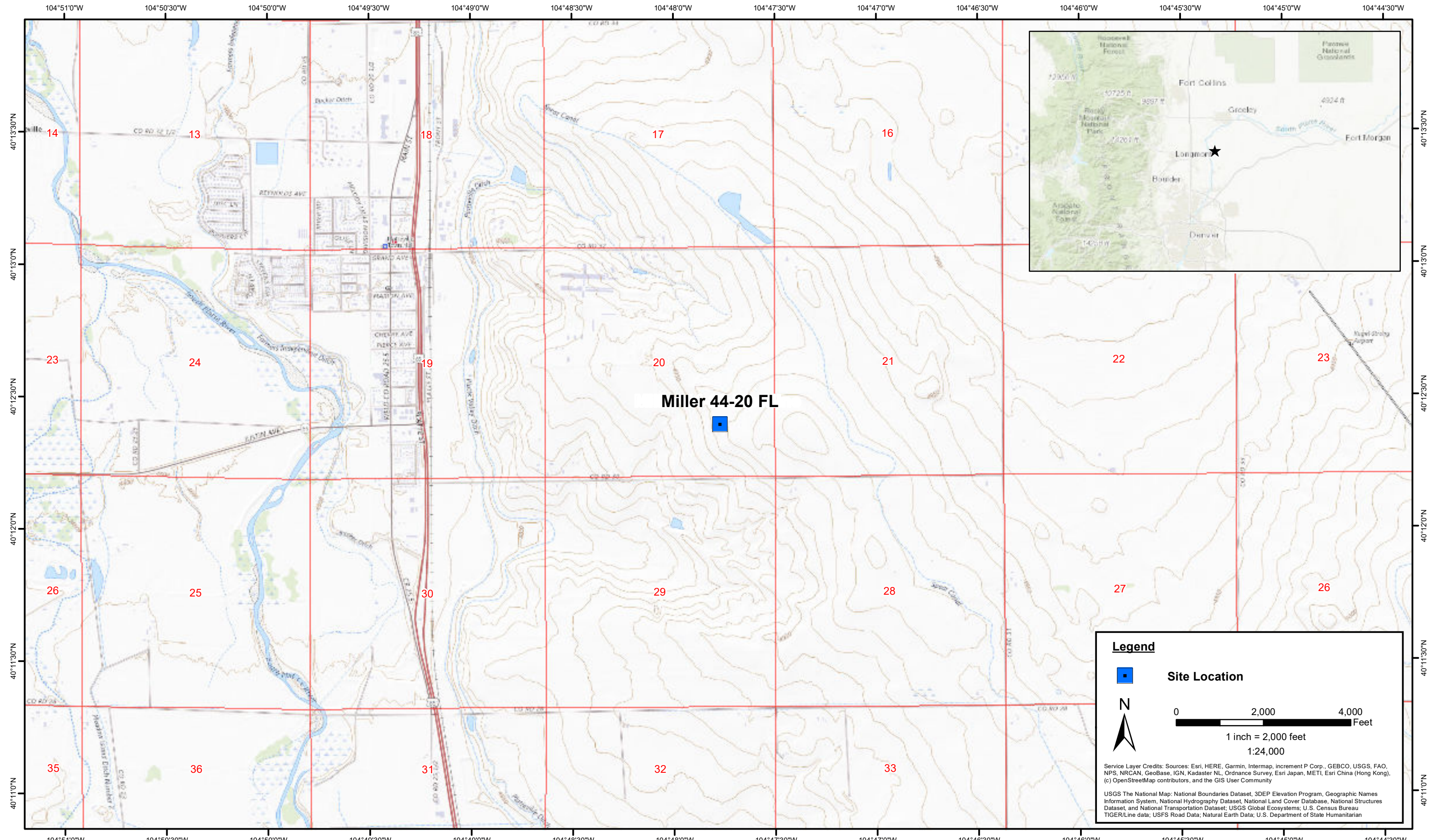
Equipment ID:		Equipment Type:	
Material:	Volume:	Contents:	
Notes/Conditions: Soil screening location, facing NW			

Equipment ID:		Equipment Type:	
Material:	Volume:	Contents:	
Notes/Conditions: Soil screening location, facing NW			



Equipment ID:		Equipment Type:		Equipment ID:		Equipment Type:	
Material:	Volume:	Contents:		Material:	Volume:	Contents:	
Notes/Conditions: Soil screening location, facing NW				Notes/Conditions:			

FIGURES



DATE:	April 2023
DESIGNED BY:	S. Vogt
DRAWN BY:	L. Reed

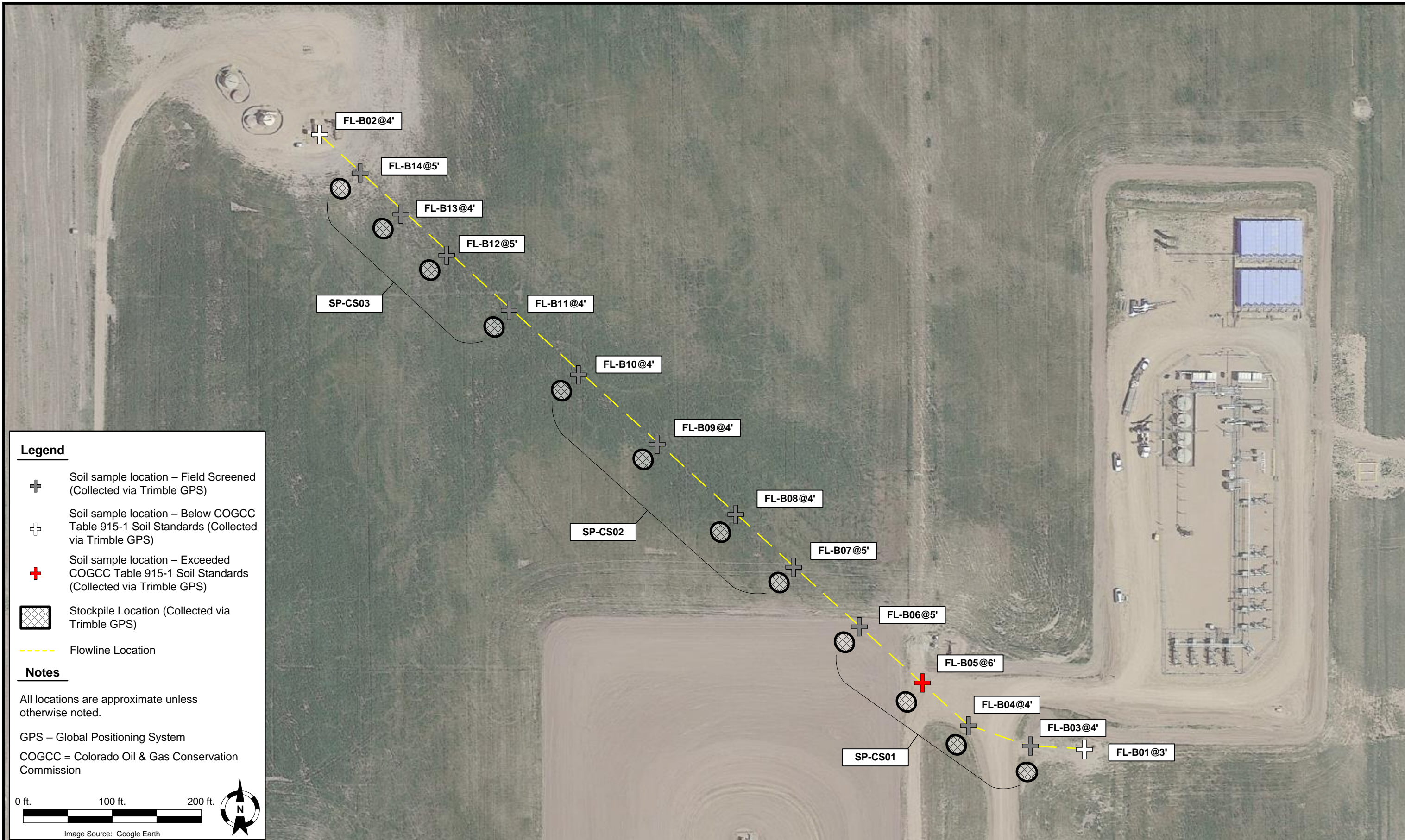


Tasman, Inc.
 6855 W. 119th Ave
 Broomfield, CO 80020

Crestone Peak Resources Operating, LLC
Miller 44-20 FL
 SESE Sec. 20-T3N-R66W
 Weld County, Colorado

Site Location Map

Figure
1



Legend

- Soil sample location – Field Screened (Collected via Trimble GPS)
- Soil sample location – Below COGCC Table 915-1 Soil Standards (Collected via Trimble GPS)
- Soil sample location – Exceeded COGCC Table 915-1 Soil Standards (Collected via Trimble GPS)
- Stockpile Location (Collected via Trimble GPS)
- Flowline Location

Notes

All locations are approximate unless otherwise noted.

GPS – Global Positioning System
 COGCC = Colorado Oil & Gas Conservation Commission

0 ft. 100 ft. 200 ft.

Image Source: Google Earth

DATE:	April 12, 2023
DESIGNED BY:	S. Vogt
DRAWN BY:	S. Vogt

TASMAN
 Tasman, Inc.
 6855 W. 119th Avenue
 Broomfield, Colorado 80020

Crestone Peak Resources Operating, LLC
Miller 44-20 FL
 SESE Sec. 20-T3N-R66W
 Weld County, Colorado

Soil Sample Location Map

FIGURE
2

TABLES

**TABLE 1
MILLER 44-20 FL**



**SOIL SAMPLE LOCATIONS
CRESTONE PEAK RESOURCES OPERATING, LLC**

Soil Sample Location	Depth	Date	PID Reading (ppm)	Latitude	Longitude	GPS PDOP Value	Lab (Y/N)
FL-B01@3'	3'	04/07/2023	1.3	40.204594	-104.793261	0.9	Y
FL-B02@4'	4'	04/07/2023	0.7	40.206499	-104.796336	0.9	Y
FL-B03@4'	4'	04/11/2023	0.1	40.204607	-104.793481	0.7	N
FL-B04@4'	4'	04/11/2023	0.0	40.204673	-104.793731	0.7	N
FL-B05@6'	6'	04/11/2023	144.2	40.204802	-104.793914	0.7	Y
FL-B06@5'	5'	04/11/2023	17.6	40.204976	-104.794167	0.7	N
FL-B07@5'	5'	04/11/2023	10.8	40.205157	-104.794424	0.7	N
FL-B08@4'	4'	04/11/2023	1.7	40.205324	-104.794662	0.7	N
FL-B09@4'	4'	04/11/2023	1.0	40.205537	-104.794980	0.7	N
FL-B10@4'	4'	04/11/2023	0.5	40.205758	-104.795296	0.7	N
FL-B11@4'	4'	04/11/2023	0.4	40.205953	-104.795576	0.7	N
FL-B12@5'	5'	04/11/2023	0.4	40.206123	-104.795825	0.7	N
FL-B13@4'	4'	04/11/2023	0.2	40.206254	-104.796010	0.8	N
FL-B14@5'	5'	04/11/2023	0.2	40.206380	-104.796172	0.8	N
SP-CS01	-	04/11/2023	0.0	-	-	-	Y
SP-CS02	-	04/11/2023	0.2	-	-	-	Y
SP-CS03	-	04/11/2023	0.0	-	-	-	Y

Notes:

PID = Photoionization Detector

ppm = parts per million

HC = Hydrocarbon

GPS = Global Positioning System

PDOP = Position Dilution of Precision

- = Not Applicable

TABLE 2
MILLER 44-20 FL
SOIL ANALYTICAL DATA - VOCs
CRESTONE PEAK RESOURCES OPERATING, LLC

Soil Sample Location	Depth	Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Naphthalene (mg/kg)	TVPH-GRO (mg/kg)	TEPH-DRO (mg/kg)	TEPH-ORO (mg/kg)	1,2,4-TMB (mg/kg)	1,3,5-TMB (mg/kg)
COGCC Organic Compounds in Soils ⁽¹⁾			0.0026	0.69	0.78	9.9	0.0038	500			0.0081	0.0087
COGCC Organic Compounds in Soils ⁽²⁾			1.2	490	5.8	58	2	500			30	27
FL-B01@3'	3'	04/07/2023	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
FL-B02@4'	4'	04/07/2023	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
FL-B05@6'	6'	04/11/2023	<0.0020	0.022	0.025	0.66	0.0046	6.8	<50	<50	0.14	0.18
SP-CS01	-	04/11/2023	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
SP-CS02	-	04/11/2023	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
SP-CS03	-	04/11/2023	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050

Notes:

VOCs = Volatile Organic Compounds

(1) Standards for soil are taken from COGCC Table 915-1: Organic Compounds in Soils - Protection of Groundwater Soil Screening Level Concentrations (Effective January 15, 2021)

(2) Standards for soil are taken from COGCC Table 915-1: Organic Compounds in Soils - Residential Soil Screening Level Concentrations (Effective January 15, 2021)

COGCC = Colorado Oil and Gas Conservation Commission

(<) = Analytical result is less than the indicated laboratory reporting limit

mg/kg = milligrams per kilogram

TVPH - GRO = Total Volatile Petroleum Hydrocarbons - Gasoline Range Organics

TEPH - DRO = Total Extractable Petroleum Hydrocarbons - Diesel Range Organics

TEPH - ORO = Total Extractable Petroleum Hydrocarbons - Oil Range Organics

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

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

BOLD = Analytical result is in exceedance of COGCC Table 915-1: Organic Compounds in Soils - Protection of Groundwater Soil Screening Level Concentrations

BOLD = Analytical result is in exceedance of COGCC Table 915-1: Organic Compounds in Soils - Residential Soil Screening Level Concentrations

LABORATORY ANALYTICAL DATA

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

April 10, 2023

Sam Vogt

Civitas Resources

650 Southgate Drive

Windsor, CO 80550

RE: Miller 44-20 FL

Work Order #2304130

Enclosed are the results of analyses for samples received by Summit Scientific on 04/07/23 17:53. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mikayla Axtell For Paul Shrewsbury

President



Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Miller 44-20 FL

Project Number: 23050
Project Manager: Sam Vogt

Reported:
04/10/23 06:46

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL-B01@3'	2304130-01	Soil	04/07/23 10:50	04/07/23 17:53
FL-B02@4'	2304130-02	Soil	04/07/23 11:29	04/07/23 17:53

Summit Scientific

The results in 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
2304130	

Send Data To:		Send Invoice To:
Client: Civitas/Tasman	Project Manager: Sam Vogt/Jacob Evans	Company:
Address: 6855 W. 119th Ave	E-Mail: svgot@tasman-geo.com; jevans@civiresources.com	Project Name/Location:
City/State/Zip: Broomfield, CO 80020		AFE#: 23150
Phone: PM (610) 405-9078	Project Name: Miller 44-20 FL	PO/Billing Codes: 8523.198
Sampler Name: Chris Girardi	Project Number:	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	BTEXN	TMBs	TPH	PAHs	pH, EC, SAR*	Boron**			
1	FL-B01e3'	4/7/23	1650	2			X			X				X	X	X	X	X	X		
2	FL-B12e4'	↓	1129	↓			↓			↓				X	X	X	X	X	X		
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					
13																					
14																					
15																					

Relinquished by: Chris M. Nardone	Date/Time: 4/7/23 1445	Received by: Tasman Lockbox	Date/Time: 4/7/23 1445	TAT Business Days	Field DO	Notes: * saturated paste AA hot water
Relinquished by: Tasman Lockbox	Date/Time: 4/7/23 1753	Received by: [Signature]	Date/Time: 4/7/23 1753	Same Day <input checked="" type="checkbox"/>	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
Relinquished by:	Date/Time:	Received by:	Date/Time:	2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
Temperature Upon Receipt: 9.3	Corrected Temperature: [Signature]	IR gun #: 1	HNO3 lot #:	Standard	Field Turb.	

S₂

Sample Receipt Checklist

S2 Work Order# 2304120

Client: Antosfasman Client Project ID: Miller 44-20 FL

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other Airbill #: _____

Matrix (Check all that apply) Air Soil/Solid Water Other

Temp (°C) Thermometer #

	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"/>	arrive
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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	same day
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.				

[Signature]
Custodian Printed Name

4.7.23
Date/Time



Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Miller 44-20 FL

Project Number: 23050
Project Manager: Sam Vogt

Reported:
04/10/23 06:46

FL-B01@3'
2304130-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/07/23 10:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGD0231	04/07/23	04/07/23	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: **04/07/23 10:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0356	89.0 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0401	100 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0404	101 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/07/23 10:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGD0234	04/07/23	04/08/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **04/07/23 10:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	12.6	100 %		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.



Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Miller 44-20 FL

Project Number: 23050
Project Manager: Sam Vogt

Reported:
04/10/23 06:46

FL-B02@4'
2304130-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/07/23 11:29**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGD0231	04/07/23	04/08/23	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: **04/07/23 11:29**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0389	97.2 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0410	103 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0410	102 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/07/23 11:29**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGD0234	04/07/23	04/08/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **04/07/23 11:29**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	12.4	99.2 %		30-150		"	"	"	"	

Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Miller 44-20 FL

Project Number: 23050
Project Manager: Sam Vogt

Reported:
04/10/23 06:46

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BGD0231 - EPA 5030 Soil MS

Blank (BGD0231-BLK1)

Prepared: 04/07/23 Analyzed: 04/08/23

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	0.0346		"	0.0400		86.5	50-150			
Surrogate: Toluene-d8	0.0406		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0396		"	0.0400		99.0	50-150			

LCS (BGD0231-BS1)

Prepared: 04/07/23 Analyzed: 04/08/23

Benzene	0.0823	0.0020	mg/kg	0.100		82.3	70-130			
Toluene	0.0844	0.0050	"	0.100		84.4	70-130			
Ethylbenzene	0.0987	0.0050	"	0.100		98.7	70-130			
m,p-Xylene	0.189	0.010	"	0.200		94.4	70-130			
o-Xylene	0.0937	0.0050	"	0.100		93.7	70-130			
1,2,4-Trimethylbenzene	0.0954	0.0050	"	0.100		95.4	70-130			
1,3,5-Trimethylbenzene	0.0984	0.0050	"	0.100		98.4	70-130			
Naphthalene	0.100	0.0038	"	0.100		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0323		"	0.0400		80.7	50-150			
Surrogate: Toluene-d8	0.0389		"	0.0400		97.3	50-150			
Surrogate: 4-Bromofluorobenzene	0.0395		"	0.0400		98.8	50-150			

Matrix Spike (BGD0231-MS1)

Source: 2304129-01

Prepared: 04/07/23 Analyzed: 04/08/23

Benzene	0.0819	0.0020	mg/kg	0.100	ND	81.9	70-130			
Toluene	0.0852	0.0050	"	0.100	ND	85.2	70-130			
Ethylbenzene	0.100	0.0050	"	0.100	ND	100	70-130			
m,p-Xylene	0.192	0.010	"	0.200	ND	96.2	70-130			
o-Xylene	0.0951	0.0050	"	0.100	ND	95.1	70-130			
1,2,4-Trimethylbenzene	0.0972	0.0050	"	0.100	ND	97.2	70-130			
1,3,5-Trimethylbenzene	0.0984	0.0050	"	0.100	ND	98.4	70-130			
Naphthalene	0.109	0.0038	"	0.100	ND	109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0319		"	0.0400		79.7	50-150			
Surrogate: Toluene-d8	0.0404		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0393		"	0.0400		98.3	50-150			

Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Miller 44-20 FL

Project Number: 23050
Project Manager: Sam Vogt

Reported:
04/10/23 06:46

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BGD0231 - EPA 5030 Soil MS

Matrix Spike Dup (BGD0231-MSD1)	Source: 2304129-01			Prepared: 04/07/23 Analyzed: 04/08/23					
Benzene	0.0799	0.0020	mg/kg	0.100	ND	79.9	70-130	2.45	30
Toluene	0.0851	0.0050	"	0.100	ND	85.1	70-130	0.141	30
Ethylbenzene	0.0946	0.0050	"	0.100	ND	94.6	70-130	5.73	30
m,p-Xylene	0.180	0.010	"	0.200	ND	90.0	70-130	6.69	30
o-Xylene	0.0922	0.0050	"	0.100	ND	92.2	70-130	3.11	30
1,2,4-Trimethylbenzene	0.0953	0.0050	"	0.100	ND	95.3	70-130	1.96	30
1,3,5-Trimethylbenzene	0.0946	0.0050	"	0.100	ND	94.6	70-130	3.98	30
Naphthalene	0.110	0.0038	"	0.100	ND	110	70-130	1.45	30
Surrogate: 1,2-Dichloroethane-d4	0.0337		"	0.0400		84.3	50-150		
Surrogate: Toluene-d8	0.0398		"	0.0400		99.6	50-150		
Surrogate: 4-Bromofluorobenzene	0.0399		"	0.0400		99.7	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.



Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Miller 44-20 FL

Project Number: 23050
Project Manager: Sam Vogt

Reported:
04/10/23 06:46

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BGD0234 - EPA 3550A

Blank (BGD0234-BLK1)

Prepared: 04/07/23 Analyzed: 04/08/23

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	14.3		"	12.5		115		30-150			

LCS (BGD0234-BS1)

Prepared: 04/07/23 Analyzed: 04/08/23

C10-C28 (DRO)	595	50	mg/kg	500		119		70-130			
Surrogate: <i>o</i> -Terphenyl	13.8		"	12.5		111		30-150			

Matrix Spike (BGD0234-MS1)

Source: 2304129-01

Prepared: 04/07/23 Analyzed: 04/08/23

C10-C28 (DRO)	521	50	mg/kg	500	19.1	100		70-130			
Surrogate: <i>o</i> -Terphenyl	10.7		"	12.5		85.3		30-150			

Matrix Spike Dup (BGD0234-MSD1)

Source: 2304129-01

Prepared: 04/07/23 Analyzed: 04/08/23

C10-C28 (DRO)	514	50	mg/kg	500	19.1	98.9		70-130	1.33	20	
Surrogate: <i>o</i> -Terphenyl	10.6		"	12.5		84.6		30-150			

Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Miller 44-20 FL

Project Number: 23050
Project Manager: Sam Vogt

Reported:
04/10/23 06:46

Notes and Definitions

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

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

April 12, 2023

Sam Vogt

Civitas Resources

650 Southgate Drive

Windsor, CO 80550

RE: Miller 44-20 FL

Work Order #2304206

Enclosed are the results of analyses for samples received by Summit Scientific on 04/11/23 17:58. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

DRAFT REPORT

DATA SUBJECT TO CHANGE



Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Miller 44-20 FL

Project Number: 23050
Project Manager: Sam Vogt

Reported:
04/12/23 06:29

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL-B05@6'	2304206-01	Soil	04/11/23 09:46	04/11/23 17:58
SP-CS01	2304206-02	Soil	04/11/23 11:27	04/11/23 17:58
SP-CS02	2304206-03	Soil	04/11/23 11:30	04/11/23 17:58
SP-CS03	2304206-04	Soil	04/11/23 11:40	04/11/23 17:58

DRAFT REPORT

The results in 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
2304206	

Client: Civitas/Tasman	Project Manager: Sam Vogt, Jacod Evans	Send Invoice To:
Address: 6855 W. 119th Ave	E-Mail: svogt@tasman-geo.com	Company:
City/State/Zip: Broomfield, CO 80020	jevans@civiresources.com	Project Name/Location:
Phone: PM 610-405-9078	Project Name: Miller 44-26 FL	AFE#: 23050
Sampler Name:	Project Number:	PO/Billing Codes: 8523.198
		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	BTEXN	TPH	TMBs(1,2,4)&(1,3,5)	PAH	pH, EC, SAR*	Boron**		Metals			
1	FL-B0506	4/11/23	0946	2			2			2				*	*	*	*	*	*				
2	SIP-LS01	↓	1127	↓			↓							*	*	*	*	*	*				
3	SP-LS02	↓	1130	↓			↓							*	*	*	*	*	*				
4	SP-LS03	↓	1140	↓			↓							*	*	*	*	*	*				
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							
13																							
14																							
15																							

Relinquished by: <i>DJM</i>	Date/Time: 4/11/23 1730	Received by: Tasman Lockbox	Date/Time: 4/11/23 1730	TAT Business Days	Field DO	Notes: Methods: *Sat. paste water **Hot
Relinquished by: Tasman Lockbox	Date/Time: 4/11/23 1758	Received by: <i>[Signature]</i>	Date/Time: 4/11/23 1758	Same Day <input checked="" type="checkbox"/>	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Temperature Upon Receipt: 9.6	Corrected Temperature: <i>⊖</i>	IR gun #:	HNO3 lot #:	Standard	Field Turb.	

S₂

Sample Receipt Checklist

S2 Work Order# 2304206

Client: Coutas/cosman Client Project ID: Miller 44-20 FL

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other Airbill #: _____

Matrix (Check all that apply) Air Soil/Solid Water Other

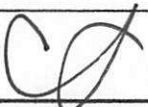
Temp (°C)

Thermometer #

	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"/>	on ICE
Are samples due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sameday
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

4.11.23
Date/Time



Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Miller 44-20 FL

Project Number: 23050
Project Manager: Sam Vogt

Reported:
04/12/23 06:29

FL-B05@6'
2304206-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/11/23 09:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGD0346	04/11/23	04/12/23	EPA 8260B	
Toluene	0.022	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.025	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.66	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.14	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.18	0.0050	"	"	"	"	"	"	
Naphthalene	0.0046	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	6.8	0.50	"	"	"	"	"	"	

Date Sampled: **04/11/23 09:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0365	91.4 %	50-150		"	"	"	"	
<i>Surrogate: Toluene-d8</i>	0.0420	105 %	50-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0428	107 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/11/23 09:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGD0345	04/11/23	04/11/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/11/23 09:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>	12.7	101 %	30-150		"	"	"	"	

DRAFT REPORT

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Miller 44-20 FL

Project Number: 23050
Project Manager: Sam Vogt

Reported:
04/12/23 06:29

SP-CS01
2304206-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/11/23 11:27**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BGD0346	04/11/23	04/12/23	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: **04/11/23 11:27**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0452	113 %	50-150	"	"	"	"	"	
Surrogate: Toluene-d8	0.0410	102 %	50-150	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0423	106 %	50-150	"	"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/11/23 11:27**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BGD0345	04/11/23	04/11/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/11/23 11:27**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	11.9	95.2 %	30-150	"	"	"	"	"	

DRAFT REPORT

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Miller 44-20 FL

Project Number: 23050
Project Manager: Sam Vogt

Reported:
04/12/23 06:29

SP-CS02
2304206-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/11/23 11:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BGD0346	04/11/23	04/12/23	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: **04/11/23 11:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0385	96.3 %	50-150	"	"	"	"	"	
Surrogate: Toluene-d8	0.0407	102 %	50-150	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0398	99.4 %	50-150	"	"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/11/23 11:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BGD0345	04/11/23	04/12/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/11/23 11:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	11.5	92.3 %	30-150	"	"	"	"	"	

DRAFT REPORT

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Miller 44-20 FL

Project Number: 23050
Project Manager: Sam Vogt

Reported:
04/12/23 06:29

SP-CS03
2304206-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/11/23 11:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BGD0346	04/11/23	04/12/23	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: **04/11/23 11:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0401	100 %	50-150	"	"	"	"	"	
Surrogate: Toluene-d8	0.0406	101 %	50-150	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0401	100 %	50-150	"	"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/11/23 11:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BGD0345	04/11/23	04/12/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/11/23 11:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	13.3	107 %	30-150	"	"	"	"	"	

DRAFT REPORT

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Miller 44-20 FL

Project Number: 23050
Project Manager: Sam Vogt

Reported:
04/12/23 06:29

Notes and Definitions

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

DRAFT REPORT

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