

TABLE 1
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
CIVITAS RESOURCES
GRANT BROS 41-26, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-049

Sample ID	Sample Date	Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Xylenes (mg/kg)	1,2,4- Trimethyl- Benzene (mg/kg)	1,3,5- Trimethyl- Benzene (mg/kg)	Naphthalene (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)
COGCC Table 915-1 Limits (Residential SSL)			1.2	490	5.8	58	30	27	2	500**		
COGCC Table 915-1 Limits (Protection of Groundwater SSL)			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500**		
MW-1 8 Ft	3/15/2023	8	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50

Bold faced values exceed the COGCC Table 915-1 concentrations

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

* Indicates laboratory minimum detection limit in excess of SSL

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

TABLE 2
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA
CIVITAS RESOURCES
GRANT BROS 41-26, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-049

Sample ID	Sample Date	Depth (ft)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo (a) Anthracene (mg/kg)	Benzo (a) Pyrene (mg/kg)	Benzo (b) Fluoranthene (mg/kg)	Benzo (k) Fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo (a,h) Anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno (1,2,3- cd) Pyrene (mg/kg)	Pyrene (mg/kg)	1-Methyl - Naphthalene (mg/kg)	2-Methyl- Naphthalene (mg/kg)
COGCC Table 915-1 Limits (Residential SSL)			360	1800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180	18	24
COGCC Table 915-1 Limits (Protection of Groundwater SSL)			0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	1.3	0.006	0.019
MW-1 8 Ft	3/15/2023	8	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500

Bold faced values exceed the COGCC Table 915-1 concentrations

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

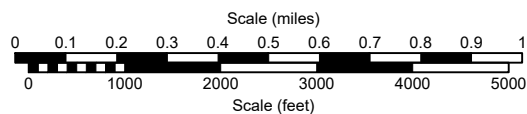
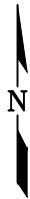
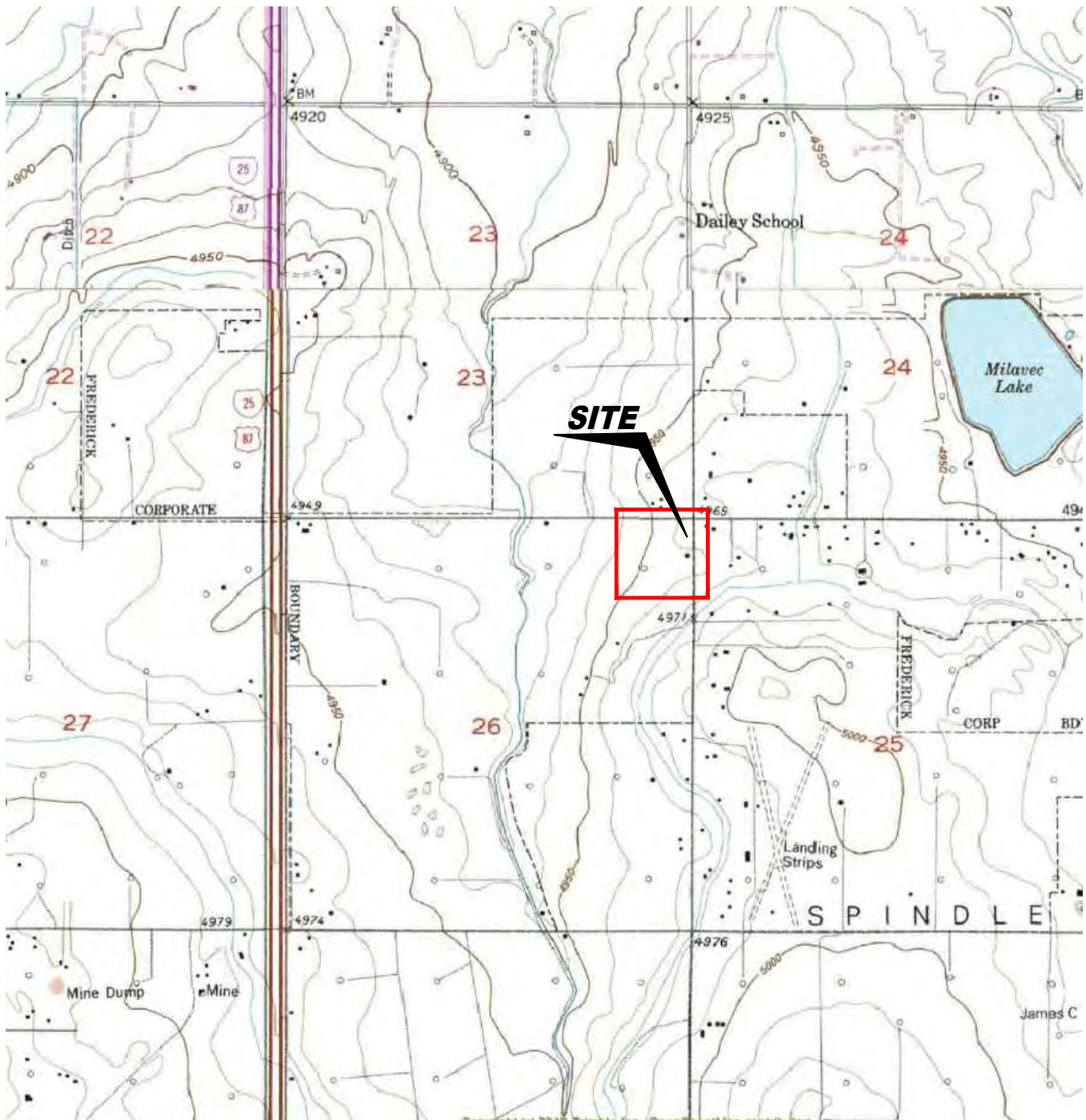
* Indicates laboratory minimum detection limit in excess of SSL

TABLE 3
SUMMARY OF SOIL SUITABILITY FOR RECLAMATION
CIVITAS RESOURCES
GRANT BROS 41-26, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-049

Sample ID	Sample Date	Depth (ft)	pH	EC (mmhos/cm)	SAR	Boron (mg/L)
COGCC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
Site Specific Background Concentration/Value						
MW-1 8 Ft	3/15/2023	8	8.04	0.425	1.86	0.0991

Bold faced values exceed the COGCC Table 915-1 concentrations

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



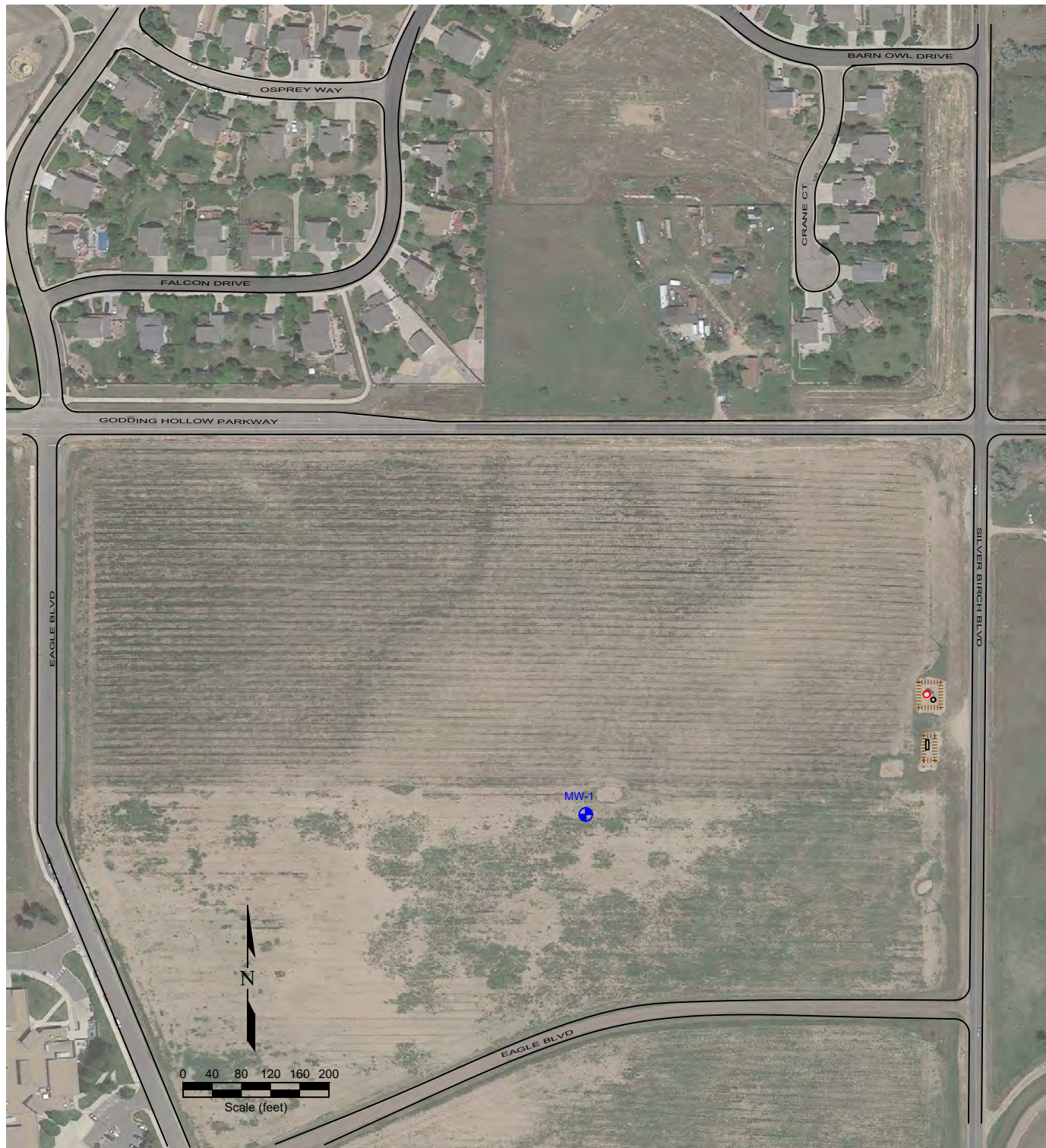
USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1
SITE LOCATION MAP

CIVITAS RESOURCES ~ GRANT BROTHERS 41-26
 NENE Sec. 26, T2N, R68W, 6th PM
 Weld County, Colorado
 40.115027°, -104.963435°

Project # C023-049	API # 05-123-08469	Facility # 119905
Date 4/10/23	Remediation # 27675	Filename 23049T





LEGEND

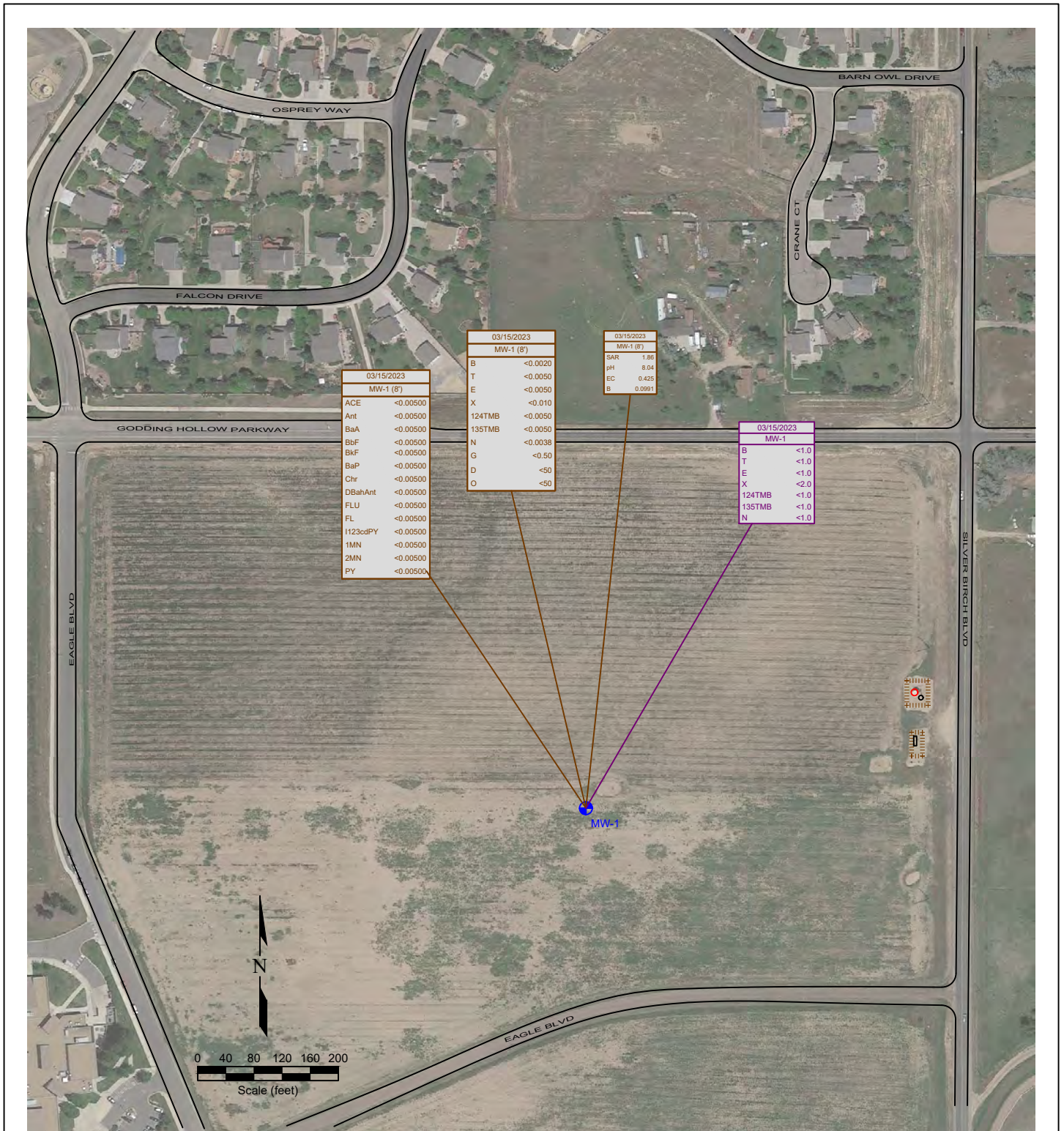
● MONITORING WELL LOCATION
 ○ ABOVE GROUND STORAGE TANK
 FORMER FORMER FACILITY
 BUILDING BUILDING
 — FENCE LINE
 ||||| CONTAINMENT BERM

**Figure 2
SITE MAP**

CIVITAS RESOURCES ~ GRANT BROTHERS 41-26
 NENE Sec. 26, T2N, R68W, 6th PM
 Weld County, Colorado
 40.115027°, -104.963435°

Project No. C023-049	API # 05-123-08469	Facility # 119905
Date 4/10/23	Remediation # 27675	Filename 23049Q





LEGEND			
	MONITORING WELL LOCATION		ABOVE GROUND STORAGE TANK
	FORMER FACILITY		BUILDING
	FORMER FACILITY		BUILDING
	FENCE LINE		CONTAINMENT BERM

03/15/2023	DATE SAMPLED	03/15/2023	DATE SAMPLED	03/15/2023	DATE SAMPLED	03/15/2023	DATE SAMPLED
MW-1 (8')	SAMPLE ID and DEPTH (ft)	MW-1 (8')	SAMPLE ID and DEPTH (ft)	MW-1 (8')	SAMPLE ID and DEPTH (ft)	MW-1 (8')	SAMPLE ID and DEPTH (ft)
ACE	ACENAPHTHENE (mg/kg)	D	BENZENE (mg/kg)	B	BENZENE (ug/L)	SAR	SAR (unitless)
Ant	ANTHRACENE (mg/kg)	T	TOLUENE (mg/kg)	T	TOLUENE (ug/L)	pH	pH (unitless)
BaA	BENZO (A) ANTHRACENE (mg/kg)	E	ETHYLBENZENE (mg/kg)	E	ETHYLBENZENE (ug/L)	EC	EC (mmhos/cm)
BbF	BENZO (B) FLUORANTHENE (mg/kg)	X	TOTAL XYLENES (mg/kg)	X	TOTAL XYLENES (ug/L)	B	BORON (mg/L)
BkF	BENZO (K) FLUORANTHENE (mg/kg)	124TMB	1,2,4-TRIMETHYLBENZENE (mg/kg)	124TMB	1,2,4-TRIMETHYLBENZENE (ug/L)		
BaP	BENZO (A) PYRENE (mg/kg)	135TMB	1,3,5-TRIMETHYLBENZENE (mg/kg)	135TMB	1,3,5-TRIMETHYLBENZENE (ug/L)		
Chr	CHRYSENE (mg/kg)	N	NAPHTHALENE (mg/kg)	N	NAPHTHALENE (ug/L)		
DBahAnt	DIBENZ (A,H) ANTHRACENE (mg/kg)	G	TPH-ORO (mg/kg)	G	TPH-ORO (ug/L)		
FLU	FLUORANTHENE (mg/kg)	D	TPH-ORO (mg/kg)	D	TPH-ORO (ug/L)		
FL	FLUORANTHENE (mg/kg)	O	TPH-ORO (mg/kg)	O	TPH-ORO (ug/L)		
I123cdPY	INDENO (1,2,3-CD) PYRENE (mg/kg)						
1MN	1-METHYLNAPHTHALENE (mg/kg)						
2MN	2-METHYLNAPHTHALENE (mg/kg)						
PY	PYRENE (mg/kg)						

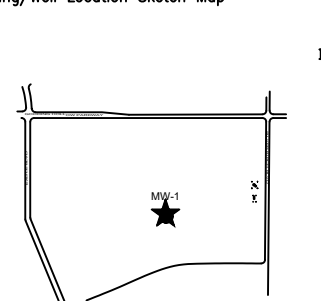
Figure 3
SOIL AND GROUNDWATER CHEMISTRY MAP
CIVITAS RESOURCES ~ GRANT BROTHERS 41-26
NENE Sec. 26, T2N, R68W, 6th PM
Weld County, Colorado
40.115027°, -104.963435°

Project No. C023-049	API # 05-123-08469	Facility # 119905
Date 4/10/23	Remediation # 27675	Filename 23049Q



BORING/WELL CONSTRUCTION LOG

Boring/Well Location Sketch Map



Page 1 of 1

Boring/Well No. MW-1		Total Depth 16'	Location Civitas Resources Grant Brothers 41-26 NENE Section 26, T2N, R68W Weld County, Colorado		
Project No./Name Grant Brothers 41-26		Drilling Contractor/Driller DrillPro			
Geologist/Office Paul Henehan / Fremont Environmental, Inc.		Approved By			
Drilling Equipment/Method Geoprobe		Size/Type of Bit 2.5" direct push	Sampling Method direct push	Start/Finish Date 3/15/23	
Well Installed? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Casing Mtrl./Dia. PVC/2"	Screen: Type Slotted Mtrl. PVC Length 10' Dia. 2" Slot Size 0.010"			
Elevation of: (ft. above datum)	Ground Surface -	Top of Well Casing -	Top of Screen -	Bottom of Screen -	Ground Water Surface/Date Measured 10.13 3/15/23

DEPTH (feet)	WELL CONSTRUCTION		LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
			GRAPHIC LOG	VISUAL DESCRIPTION				
	Bentonite	1" Blank	ML	Silty fine to medium sand, brown, dry, no stain, no odor				
5	#10-20 Silica Sand	1" Screen		Silty fine to medium sand, brown, very moist, no stain, no odor				0
10				Silty fine to medium sand, brown, very moist, no stain, no odor				0
				wet ~ 11'				
15			SM	Sandy silt with moderate plasticity, brown, wet, no stain, no odor				0
				TD 16'				0
20								

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

March 23, 2023

Paul Henchan

Fremont Environmental

PO Box 1289

Wellington, CO 80549

RE: Civitas - Grant Bros 41-26

Work Order #2303403

Enclosed are the results of analyses for samples received by Summit Scientific on 03/15/23 17:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Scott Sheely".

Scott Sheely For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Civitas - Grant Bros 41-26

Project Number: CO23-049
Project Manager: Paul Henchan

Reported:
03/23/23 15:55

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1 8FT	2303403-01	Soil	03/15/23 00:00	03/15/23 17:00
MW-1	2303403-02	Water	03/15/23 00:00	03/15/23 17:00

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.

2303403

Summit Scientific

S₂

4653 Table Mountain Drive ♦ Golden, Colorado 80403
303-277-9310

Page 1 of 1

Client: Fremont Environmental Inc.

Project Manager: Paul Henehan

Address:

E-Mail: CIVITAS - JACOB EVANS

City/State/Zip:

Phone:

Project Name: GRANT BROS 41-24

Sampler Name: HENEHAN

Project Number: C023-049

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	GBTEXN+TMBs	DRO,RRO	PAHs	pH, EC, SAR	Boron	9/15-1 metals	Arsenic	BTEXN + TMBs	TDS, Cl, Su				
1	MW-1 8 FT	3/15/23	3:15/23	2						✓				✓	✓	✓	✓	✓							
2	MW-1	11		2	✓					✓									✓						
3																									
4																									
5																									
6																									
7																									
8																									
9																									
10																									

Relinquished by:	Date/Time:	Received by:	Date/Time:	Turn Around Time	(Check)	Notes:
QA/KE	3/15/23 1700	[Signature]	3/15/23 1700	Same Day	72 hours	
Relinquished by:	Date/Time:	Received by:	Date/Time:	24 hours	Standard	
				48 hours		
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity:		
				Temperature Upon Receipt:	88	
				Samples Intact:	Yes No	

S₂

Sample Receipt Checklist

S2 Work Order#

2303403

Client: Fremont

Client Project ID:

Grant Bros 41-20

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

Airbill #:

☐ ☒ ☐ ☐ ☐

Matrix (Check all that apply)

Air

☐

Soil/Solid

☐

Water

☒

Other

☐

Temp (°C)

8.8

Thermometer #

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>NOTE</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 type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>HCl</u>
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

3.15.23



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Civitas - Grant Bros 41-26

Project Number: CO23-049
Project Manager: Paul Henchan

Reported:
03/23/23 15:55

MW-1 8FT
2303403-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/15/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGC0558	03/18/23	03/19/23	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: **03/15/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0406	101 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0417	104 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0430	108 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/15/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGC0562	03/18/23	03/19/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/15/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	9.16	73.2 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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PO Box 1289
Wellington CO, 80549

Project: Civitas - Grant Bros 41-26

Project Number: CO23-049
Project Manager: Paul Henchan

Reported:
03/23/23 15:55

MW-1 8FT
2303403-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/15/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGC0670	03/21/23	03/22/23	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: **03/15/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0321	96.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0324	97.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/15/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0991	0.0100	mg/L	1	BGC0645	03/20/23	03/21/23	EPA 6020B	

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

Date Sampled: **03/15/23 00:00**

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

Project: Civitas - Grant Bros 41-26

Project Number: CO23-049
Project Manager: Paul Henchan

Reported:
03/23/23 15:55

MW-1 8FT
2303403-01 (Soil)

Summit Scientific

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

Calcium	18.4	0.0584	mg/L dry	1	BGC0700	03/21/23	03/22/23	EPA 6020B
Magnesium	12.2	0.0584	"	"	"	"	"	"
Sodium	42.0	0.0584	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **03/15/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.86	0.00100	units	1	BGC0784	03/23/23	03/23/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/15/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.6		%	1	BGC0684	03/21/23	03/21/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/15/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.425	0.0100	mmhos/cm	1	BGC0729	03/22/23	03/22/23	EPA 120.1	

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

Date Sampled: **03/15/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.04		pH Units	1	BGC0728	03/22/23	03/22/23	EPA 9045D	

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Project: Civitas - Grant Bros 41-26

Project Number: CO23-049
Project Manager: Paul Henchan

Reported:
03/23/23 15:55

MW-1
2303403-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/15/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BGC0537	03/17/23	03/19/23	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **03/15/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	15.8	118 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	13.7	103 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.6	102 %	21-167		"	"	"	"	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Civitas - Grant Bros 41-26

Project Number: CO23-049
Project Manager: Paul Henchan

Reported:
03/23/23 15:55

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 BGC0537 - EPA 5030 Water MS

Blank (BGC0537-BLK1)

Prepared: 03/17/23 Analyzed: 03/19/23

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Naphthalene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	15.9		"	13.3		119	23-173			
Surrogate: Toluene-d8	13.7		"	13.3		103	20-170			
Surrogate: 4-Bromofluorobenzene	13.6		"	13.3		102	21-167			

LCS (BGC0537-BS1)

Prepared: 03/17/23 Analyzed: 03/19/23

Benzene	44.4	1.0	ug/l	41.7		106	51-132			
Toluene	45.4	1.0	"	41.7		109	51-138			
Ethylbenzene	42.4	1.0	"	41.7		102	58-146			
m,p-Xylene	85.0	2.0	"	83.3		102	57-144			
o-Xylene	39.8	1.0	"	41.7		95.6	53-146			
Naphthalene	29.2	1.0	"	41.7		70.1	70-130			
1,2,4-Trimethylbenzene	40.8	1.0	"	41.7		97.9	70-130			
1,3,5-Trimethylbenzene	41.2	1.0	"	41.7		98.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	15.8		"	13.3		119	23-173			
Surrogate: Toluene-d8	13.8		"	13.3		104	20-170			
Surrogate: 4-Bromofluorobenzene	13.5		"	13.3		102	21-167			

Matrix Spike (BGC0537-MS1)

Source: 2303354-01

Prepared: 03/17/23 Analyzed: 03/19/23

Benzene	44.2	1.0	ug/l	41.7	ND	106	34-141			
Toluene	45.2	1.0	"	41.7	ND	108	27-151			
Ethylbenzene	41.7	1.0	"	41.7	ND	100	29-160			
m,p-Xylene	83.5	2.0	"	83.3	ND	100	20-166			
o-Xylene	38.8	1.0	"	41.7	ND	93.1	33-159			
Naphthalene	31.2	1.0	"	41.7	ND	74.9	70-130			
1,2,4-Trimethylbenzene	39.6	1.0	"	41.7	ND	95.1	70-130			
1,3,5-Trimethylbenzene	40.3	1.0	"	41.7	ND	96.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	15.4		"	13.3		115	23-173			
Surrogate: Toluene-d8	13.8		"	13.3		103	20-170			
Surrogate: 4-Bromofluorobenzene	13.2		"	13.3		98.9	21-167			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Civitas - Grant Bros 41-26

Project Number: CO23-049
Project Manager: Paul Henchan

Reported:
03/23/23 15:55

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 BGC0537 - EPA 5030 Water MS

Matrix Spike Dup (BGC0537-MSD1)

Source: 2303354-01

Prepared: 03/17/23 Analyzed: 03/19/23

Benzene	44.0	1.0	ug/l	41.7	ND	106	34-141	0.408	30	
Toluene	44.9	1.0	"	41.7	ND	108	27-151	0.577	30	
Ethylbenzene	42.0	1.0	"	41.7	ND	101	29-160	0.621	30	
m,p-Xylene	83.8	2.0	"	83.3	ND	101	20-166	0.442	30	
o-Xylene	39.7	1.0	"	41.7	ND	95.4	33-159	2.45	30	
Naphthalene	31.4	1.0	"	41.7	ND	75.5	70-130	0.734	30	
1,2,4-Trimethylbenzene	40.0	1.0	"	41.7	ND	96.1	70-130	1.05	30	
1,3,5-Trimethylbenzene	40.6	1.0	"	41.7	ND	97.6	70-130	0.790	30	
Surrogate: 1,2-Dichloroethane-d4	16.1		"	13.3		121	23-173			
Surrogate: Toluene-d8	13.8		"	13.3		103	20-170			
Surrogate: 4-Bromofluorobenzene	13.6		"	13.3		102	21-167			

Batch BGC0558 - EPA 5030 Soil MS

Blank (BGC0558-BLK1)

Prepared: 03/18/23 Analyzed: 03/19/23

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	0.0404		"	0.0400		101	50-150			
Surrogate: Toluene-d8	0.0406		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0432		"	0.0400		108	50-150			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Civitas - Grant Bros 41-26

Project Number: CO23-049
Project Manager: Paul Henchan

Reported:
03/23/23 15:55

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 BGC0558 - EPA 5030 Soil MS

LCS (BGC0558-BS1)

Prepared: 03/18/23 Analyzed: 03/19/23

Benzene	0.0904	0.0020	mg/kg	0.125		72.4	70-130			
Toluene	0.0890	0.0050	"	0.125		71.2	70-130			
Ethylbenzene	0.143	0.0050	"	0.125		114	70-130			
m,p-Xylene	0.286	0.010	"	0.250		114	70-130			
o-Xylene	0.136	0.0050	"	0.125		109	70-130			
1,2,4-Trimethylbenzene	0.150	0.0050	"	0.125		120	70-130			
1,3,5-Trimethylbenzene	0.162	0.0050	"	0.125		130	70-130			
Naphthalene	0.144	0.0038	"	0.125		115	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0422		"	0.0400		105	50-150			
Surrogate: Toluene-d8	0.0417		"	0.0400		104	50-150			
Surrogate: 4-Bromofluorobenzene	0.0403		"	0.0400		101	50-150			

Matrix Spike (BGC0558-MS1)

Source: 2303361-01

Prepared: 03/18/23 Analyzed: 03/19/23

Benzene	0.0896	0.0020	mg/kg	0.125	ND	71.7	70-130			
Toluene	0.0896	0.0050	"	0.125	ND	71.7	70-130			
Ethylbenzene	0.140	0.0050	"	0.125	ND	112	70-130			
m,p-Xylene	0.284	0.010	"	0.250	ND	114	70-130			
o-Xylene	0.137	0.0050	"	0.125	ND	109	70-130			
1,2,4-Trimethylbenzene	0.157	0.0050	"	0.125	ND	125	70-130			
1,3,5-Trimethylbenzene	0.156	0.0050	"	0.125	ND	125	70-130			
Naphthalene	0.160	0.0038	"	0.125	ND	128	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0408		"	0.0400		102	50-150			
Surrogate: Toluene-d8	0.0410		"	0.0400		103	50-150			
Surrogate: 4-Bromofluorobenzene	0.0393		"	0.0400		98.3	50-150			

Matrix Spike Dup (BGC0558-MSD1)

Source: 2303361-01

Prepared: 03/18/23 Analyzed: 03/19/23

Benzene	0.0980	0.0020	mg/kg	0.125	ND	78.4	70-130	8.92	30	
Toluene	0.0956	0.0050	"	0.125	ND	76.5	70-130	6.45	30	
Ethylbenzene	0.141	0.0050	"	0.125	ND	113	70-130	0.448	30	
m,p-Xylene	0.283	0.010	"	0.250	ND	113	70-130	0.381	30	
o-Xylene	0.137	0.0050	"	0.125	ND	109	70-130	0.176	30	
1,2,4-Trimethylbenzene	0.158	0.0050	"	0.125	ND	126	70-130	0.935	30	
1,3,5-Trimethylbenzene	0.155	0.0050	"	0.125	ND	124	70-130	0.540	30	
Naphthalene	0.154	0.0038	"	0.125	ND	124	70-130	3.74	30	
Surrogate: 1,2-Dichloroethane-d4	0.0421		"	0.0400		105	50-150			
Surrogate: Toluene-d8	0.0418		"	0.0400		104	50-150			
Surrogate: 4-Bromofluorobenzene	0.0396		"	0.0400		99.0	50-150			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Civitas - Grant Bros 41-26

Project Number: CO23-049
Project Manager: Paul Henchan

Reported:
03/23/23 15:55

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 BGC0562 - EPA 3550A

Blank (BGC0562-BLK1)

Prepared: 03/18/23 Analyzed: 03/19/23

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	12.3		"	12.5		98.5	30-150			

LCS (BGC0562-BS1)

Prepared: 03/18/23 Analyzed: 03/19/23

C10-C28 (DRO)	455	50	mg/kg	500		90.9	70-130			
Surrogate: o-Terphenyl	13.2		"	12.5		106	30-150			

Matrix Spike (BGC0562-MS1)

Source: 2303361-01

Prepared: 03/18/23 Analyzed: 03/19/23

C10-C28 (DRO)	483	50	mg/kg	500	10.7	94.4	70-130			
Surrogate: o-Terphenyl	13.7		"	12.5		110	30-150			

Matrix Spike Dup (BGC0562-MSD1)

Source: 2303361-01

Prepared: 03/18/23 Analyzed: 03/19/23

C10-C28 (DRO)	451	50	mg/kg	500	10.7	88.1	70-130	6.76	20	
Surrogate: o-Terphenyl	12.6		"	12.5		101	30-150			

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PO Box 1289
Wellington CO, 80549

Project: Civitas - Grant Bros 41-26
Project Number: CO23-049
Project Manager: Paul Henchan

Reported:
03/23/23 15:55

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGC0670 - EPA 5030 Soil MS

Blank (BGC0670-BLK1)

Prepared: 03/21/23 Analyzed: 03/22/23

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	0.0285		"	0.0333		85.4	40-150			
Surrogate: Fluoranthene-d10	0.0326		"	0.0333		97.8	40-150			

LCS (BGC0670-BS1)

Prepared: 03/21/23 Analyzed: 03/22/23

Acenaphthene	0.0296	0.00500	mg/kg	0.0333		88.7	31-137			
Anthracene	0.0298	0.00500	"	0.0333		89.3	30-120			
Benzo (a) anthracene	0.0285	0.00500	"	0.0333		85.4	30-120			
Benzo (a) pyrene	0.0306	0.00500	"	0.0333		91.7	30-120			
Benzo (b) fluoranthene	0.0283	0.00500	"	0.0333		84.8	30-120			
Benzo (k) fluoranthene	0.0279	0.00500	"	0.0333		83.6	30-120			
Chrysene	0.0248	0.00500	"	0.0333		74.5	30-120			
Dibenz (a,h) anthracene	0.0283	0.00500	"	0.0333		84.9	30-120			
Fluoranthene	0.0284	0.00500	"	0.0333		85.2	30-120			
Fluorene	0.0302	0.00500	"	0.0333		90.5	30-120			
Indeno (1,2,3-cd) pyrene	0.0264	0.00500	"	0.0333		79.1	30-120			
Pyrene	0.0295	0.00500	"	0.0333		88.6	35-142			
1-Methylnaphthalene	0.0273	0.00500	"	0.0333		81.8	35-142			
2-Methylnaphthalene	0.0275	0.00500	"	0.0333		82.5	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0273		"	0.0333		81.9	40-150			
Surrogate: Fluoranthene-d10	0.0306		"	0.0333		91.8	40-150			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Civitas - Grant Bros 41-26
Project Number: CO23-049
Project Manager: Paul Henchan

Reported:
03/23/23 15:55

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGC0670 - EPA 5030 Soil MS

Matrix Spike (BGC0670-MS1)

Source: 2303361-01

Prepared: 03/21/23 Analyzed: 03/22/23

Acenaphthene	0.0228	0.00500	mg/kg	0.0333	ND	68.3	31-137			
Anthracene	0.0224	0.00500	"	0.0333	ND	67.2	30-120			
Benzo (a) anthracene	0.0225	0.00500	"	0.0333	ND	67.5	30-120			
Benzo (a) pyrene	0.0226	0.00500	"	0.0333	ND	67.8	30-120			
Benzo (b) fluoranthene	0.0210	0.00500	"	0.0333	ND	63.1	30-120			
Benzo (k) fluoranthene	0.0213	0.00500	"	0.0333	ND	63.9	30-120			
Chrysene	0.0196	0.00500	"	0.0333	ND	58.8	30-120			
Dibenz (a,h) anthracene	0.0203	0.00500	"	0.0333	ND	61.0	30-120			
Fluoranthene	0.0207	0.00500	"	0.0333	ND	62.2	30-120			
Fluorene	0.0229	0.00500	"	0.0333	ND	68.7	30-120			
Indeno (1,2,3-cd) pyrene	0.0209	0.00500	"	0.0333	ND	62.6	30-120			
Pyrene	0.0240	0.00500	"	0.0333	ND	72.1	35-142			
1-Methylnaphthalene	0.0210	0.00500	"	0.0333	ND	63.1	15-130			
2-Methylnaphthalene	0.0214	0.00500	"	0.0333	ND	64.1	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0228		"	0.0333		68.3	40-150			
Surrogate: Fluoranthene-d10	0.0230		"	0.0333		68.9	40-150			

Matrix Spike Dup (BGC0670-MSD1)

Source: 2303361-01

Prepared: 03/21/23 Analyzed: 03/22/23

Acenaphthene	0.0238	0.00500	mg/kg	0.0333	ND	71.4	31-137	4.46	30	
Anthracene	0.0227	0.00500	"	0.0333	ND	68.1	30-120	1.34	30	
Benzo (a) anthracene	0.0230	0.00500	"	0.0333	ND	69.1	30-120	2.34	30	
Benzo (a) pyrene	0.0220	0.00500	"	0.0333	ND	65.9	30-120	2.92	30	
Benzo (b) fluoranthene	0.0218	0.00500	"	0.0333	ND	65.3	30-120	3.54	30	
Benzo (k) fluoranthene	0.0226	0.00500	"	0.0333	ND	67.8	30-120	6.02	30	
Chrysene	0.0201	0.00500	"	0.0333	ND	60.2	30-120	2.35	30	
Dibenz (a,h) anthracene	0.0224	0.00500	"	0.0333	ND	67.1	30-120	9.53	30	
Fluoranthene	0.0236	0.00500	"	0.0333	ND	70.7	30-120	12.8	30	
Fluorene	0.0245	0.00500	"	0.0333	ND	73.4	30-120	6.70	30	
Indeno (1,2,3-cd) pyrene	0.0216	0.00500	"	0.0333	ND	64.9	30-120	3.63	30	
Pyrene	0.0234	0.00500	"	0.0333	ND	70.3	35-142	2.53	30	
1-Methylnaphthalene	0.0241	0.00500	"	0.0333	ND	72.4	15-130	13.8	50	
2-Methylnaphthalene	0.0235	0.00500	"	0.0333	ND	70.6	15-130	9.65	50	
Surrogate: 2-Methylnaphthalene-d10	0.0240		"	0.0333		72.0	40-150			
Surrogate: Fluoranthene-d10	0.0266		"	0.0333		79.9	40-150			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Civitas - Grant Bros 41-26

Project Number: CO23-049
Project Manager: Paul Henchan

Reported:
03/23/23 15:55

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 BGC0645 - EPA 3050B

Blank (BGC0645-BLK1)

Prepared: 03/20/23 Analyzed: 03/21/23

Boron ND 0.0100 mg/L

LCS (BGC0645-BS1)

Prepared: 03/20/23 Analyzed: 03/21/23

Boron 5.14 0.0100 mg/L 5.00 103 80-120

Duplicate (BGC0645-DUP1)

Source: 2303374-01

Prepared: 03/20/23 Analyzed: 03/21/23

Boron 0.0594 0.0100 mg/L 0.0652 9.26 20

Matrix Spike (BGC0645-MS1)

Source: 2303374-01

Prepared: 03/20/23 Analyzed: 03/21/23

Boron 4.79 0.0100 mg/L 5.00 0.0652 94.5 75-125

Matrix Spike Dup (BGC0645-MSD1)

Source: 2303374-01

Prepared: 03/20/23 Analyzed: 03/21/23

Boron 5.04 0.0100 mg/L 5.00 0.0652 99.6 75-125 5.19 25

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Civitas - Grant Bros 41-26

Project Number: CO23-049
Project Manager: Paul Henchan

Reported:
03/23/23 15:55

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 BGC0700 - General Preparation

Blank (BGC0700-BLK1)

Prepared: 03/21/23 Analyzed: 03/22/23

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

LCS (BGC0700-BS1)

Prepared: 03/21/23 Analyzed: 03/22/23

Calcium	5.21	0.0500	mg/L wet	5.00	104	70-130
Magnesium	4.95	0.0500	"	5.00	99.0	70-130
Sodium	4.72	0.0500	"	5.00	94.3	70-130

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Civitas - Grant Bros 41-26

Project Number: CO23-049
Project Manager: Paul Henchan

Reported:
03/23/23 15:55

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 BGC0684 - General Preparation

Duplicate (BGC0684-DUP1)

Source: 2303401-01

Prepared & Analyzed: 03/21/23

% Solids	95.3	%	95.3	0.0166	20
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Civitas - Grant Bros 41-26

Project Number: CO23-049
Project Manager: Paul Henchan

Reported:
03/23/23 15:55

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 BGC0729 - General Preparation

Blank (BGC0729-BLK1)

Prepared & Analyzed: 03/22/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGC0729-BS1)

Prepared & Analyzed: 03/22/23

Specific Conductance (EC) 0.151 0.0100 mmhos/cm 0.150 101 95-105

Duplicate (BGC0729-DUP1)

Source: 2303398-01

Prepared & Analyzed: 03/22/23

Specific Conductance (EC) 5.12 0.0100 mmhos/cm 5.28 3.11 20

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Civitas - Grant Bros 41-26

Project Number: CO23-049
Project Manager: Paul Henchan

Reported:
03/23/23 15:55

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 BGC0728 - General Preparation

LCS (BGC0728-BS1)

Prepared & Analyzed: 03/22/23

pH	9.18	pH Units	9.18	100	95-105
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Duplicate (BGC0728-DUP1)

Source: 2303398-01

Prepared & Analyzed: 03/22/23

pH	7.34	pH Units	7.37	0.408	20
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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