# **Analytical Report**

### **Report Summary**

Client: Enduring Resources, LLC

Samples Received: 5/18/2020 Job Number: 17065-0017 Work Order: P005059

Project Name/Location: Campbell Com 1E

Report Reviewed By:	Walter Hinkman	Date:	5/26/20	
•	W 11 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	_		

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.

Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

Envirotech, Inc, holds the Utah TNI certification NM009792018-1 for the data reported.

Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.



Project Name:

Campbell Com 1E

511 16th Street, Suite 700 Denver CO, 80202 Project Number: Project Manager: 17065-0017 Chad Snell **Reported:** 05/26/20 13:58

# **Analytical Report for Samples**

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Braden Head	P005059-01A	Aqueous	05/18/20	05/18/20	Poly 500mL
	P005059-01B	Aqueous	05/18/20	05/18/20	Poly 500mL



Project Name:

Campbell Com 1E

511 16th Street, Suite 700 Denver CO, 80202 Project Number: Project Manager: 17065-0017 Chad Snell Reported:

05/26/20 13:58

### Braden Head P005059-01 (Water)

		Reporting	37-01 (***						
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Wet Chem/Gravimetric									
Total Dissolved Solids	8400	25.0	mg/L	1	2021019	05/20/20	05/22/20	SM2540C	
Dissolved Metals by 6010									
Sodium Absorption Ratio	424		N/A	1	2021028	05/22/20	05/22/20	[CALC]	
Calcium	2.25	1.00	mg/L	1	2021017	05/20/20	05/21/20	EPA 6010C	
Iron	ND	2.00	mg/L	1	2021017	05/20/20	05/21/20	EPA 6010C	
Magnesium	ND	1.00	mg/L	1	2021017	05/20/20	05/21/20	EPA 6010C	
Potassium	1470	100	mg/L	100	2021017	05/20/20	05/21/20	EPA 6010C	
Sodium	2310	200	mg/L	100	2021017	05/20/20	05/21/20	EPA 6010C	
Anions by 300.0/9056A									
Fluoride	ND	5.00	mg/L	20	2021014	05/20/20	05/20/20	EPA 300.0/9056A	
Chloride	1040	40.0	mg/L	20	2021014	05/20/20	05/20/20	EPA 300.0/9056A	
Nitrite-N	ND	5.00	mg/L	20	2021014	05/20/20 07:51	05/20/20 10:44	EPA 300.0/9056A	
Nitrate-N	ND	5.00	mg/L	20	2021014	05/20/20 07:51	05/20/20 10:44	EPA 300.0/9056A	
o-Phosphate-P	ND	5.00	mg/L	20	2021014	05/20/20 07:51	05/20/20 10:44	EPA 300.0/9056A	
Sulfate	338	40.0	mg/L	20	2021014	05/20/20	05/20/20	EPA 300.0/9056A	
Wet Chemistry									
рН @25°C	12.8		pH Units	1	2021011	05/19/20 10:58	05/19/20 12:19	9040C/4500 H+B	HS
Specific Conductance (@ 25 C)	25400	10.0	uS/cm	1	2021025	05/21/20	05/21/20	9050A/2510 B	
Total Alkalinity (as CaCO3 at pH 4.5)	4980	10.0	mg/L	1	2021027	05/21/20	05/21/20	SM2320B	



Project Name:

Reporting

Campbell Com 1E

Spike

Source

511 16th Street, Suite 700 Denver CO, 80202 Project Number: 17065-0017
Project Manager: Chad Snell

**Reported:** 05/26/20 13:58

RPD

%REC

#### Wet Chem/Gravimetric - Quality Control

#### **Envirotech Analytical Laboratory**

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2021019 - Wet Chemistry Preparation										
Blank (2021019-BLK1)				Prepared: 0	05/20/20 1 A	Analyzed: 0	5/22/20 1			
Total Dissolved Solids	ND	10.0	mg/L							
LCS (2021019-BS1)				Prepared: 0	05/20/20 1 A	Analyzed: 0	5/22/20 1			
Total Dissolved Solids	114	10.0	mg/L	100		114	55-134			
Duplicate (2021019-DUP1)	Source:	P005059-0	)1	Prepared: 0	05/20/20 1 A	Analyzed: 0	5/22/20 1			
Total Dissolved Solids	8270	25.0	mg/L		8400			1.53	5	



Project Name:

2340

200

Campbell Com 1E

511 16th Street, Suite 700 Denver CO, 80202

Sodium

Project Number: 17065-0017
Project Manager: Chad Snell

**Reported:** 05/26/20 13:58

#### Dissolved Metals by 6010 - Quality Control

#### **Envirotech Analytical Laboratory**

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

Blank (2021017-BLK1)				Prepared: 0	5/20/20 1 A	Analyzed: (	05/21/20 1			
Calcium	ND	1.00	mg/L							
Iron	ND	2.00	"							
Magnesium	ND	1.00	"							
Potassium	ND	1.00	"							
Sodium	ND	2.00	"							
LCS (2021017-BS1)				Prepared: 0	5/20/20 1 A	Analyzed: (	05/21/20 1			
Calcium	51.7	1.00	mg/L	50.0		103	80-120			
Iron	104	2.00	"	100		104	80-120			
Magnesium	50.5	1.00	"	50.0		101	80-120			
Potassium	5.15	1.00	"	5.00		103	80-120			
Sodium	18.6	2.00	"	20.0		93.0	80-120			
Matrix Spike (2021017-MS1)	Sourc	e: P005059-	01	Prepared: 0	5/20/20 1 A	Analyzed: (	05/21/20 1			
Calcium	56.4	1.00	mg/L	50.0	2.25	108	75-125			
fron	111	2.00	"	100	ND	111	75-125			
Magnesium	50.1	1.00	"	50.0	ND	100	75-125			
Potassium	1500	100	"	5.00	1470	760	75-125			M2
Sodium	2390	200	"	20.0	2310	400	75-125			M2
Matrix Spike Dup (2021017-MSD1)	Sourc	e: P005059-	01	Prepared: 0	5/20/20 1 A	Analyzed: (	05/21/20 1			
Calcium	56.5	1.00	mg/L	50.0	2.25	109	75-125	0.177	20	
iron	111	2.00	"	100	ND	111	75-125	0.450	20	
Magnesium	50.7	1.00	"	50.0	ND	101	75-125	1.17	20	
Potassium	1460	100	"	5.00	1470	NR	75-125	2.77	20	M2

2310

135

20.0

75-125

2.24

20

M2



Project Name:

Campbell Com 1E

511 16th Street, Suite 700 Denver CO, 80202 Project Number: 17065-0017
Project Manager: Chad Snell

**Reported:** 05/26/20 13:58

#### Anions by 300.0/9056A - Quality Control

#### **Envirotech Analytical Laboratory**

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

Blank (2021014-BLK1)				Prepared: 05/20/2	20 0 Analyzed: 0	5/20/20 1			
Fluoride	ND	0.250	mg/L	•	<u> </u>				
Chloride	ND	2.00	"						
Nitrite-N	ND	0.250	"						
Nitrate-N	ND	0.250	"						
o-Phosphate-P	ND	0.250	"						
Sulfate	ND	2.00	"						
LCS (2021014-BS1)				Prepared: 05/20/2	20 0 Analyzed: 0	05/20/20 1			
Fluoride	2.59	0.250	mg/L	2.50	104	90-110			
Chloride	24.7	2.00	"	25.0	98.8	90-110			
Nitrite-N	2.56	0.250	"	2.50	102	90-110			
Nitrate-N	2.60	0.250	"	2.50	104	90-110			
o-Phosphate-P	12.7	0.250	"	12.5	102	90-110			
Sulfate	24.6	2.00	"	25.0	98.4	90-110			
LCS Dup (2021014-BSD1)				Prepared: 05/20/2	20 0 Analyzed: 0	05/20/20 1			
Fluoride	2.64	0.250	mg/L	2.50	106	90-110	2.07	20	
Chloride	25.2	2.00	"	25.0	101	90-110	1.97	20	
Nitrite-N	2.60	0.250	"	2.50	104	90-110	1.82	20	
Nitrate-N	2.65	0.250	"	2.50	106	90-110	1.94	20	
o-Phosphate-P	13.0	0.250	"	12.5	104	90-110	1.86	20	
Sulfate	25.1	2.00	"	25.0	100	90-110	1.98	20	



Project Name:

Campbell Com 1E

511 16th Street, Suite 700 Denver CO, 80202 Project Number: 17065-0017
Project Manager: Chad Snell

**Reported:** 05/26/20 13:58

#### **Wet Chemistry - Quality Control**

#### **Envirotech Analytical Laboratory**

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

**Batch 2021011 - Wet Chemistry Preparation** 

LCS (2021011-BS1)			Prepared & Ana	alyzed: 0	5/19/20	1			
pH	8.03	pH Units	8.00		100	98.75-101.25			
<b>Duplicate (2021011-DUP1)</b>	Source: P00	Source: P005059-01 P			Prepared & Analyzed: 05/19/20 1				
pH	12.8	pH Units	1	12.8			0.00	20	



Denver CO, 80202

Specific Conductance (@ 25 C)

511 16th Street, Suite 700

Project Name:

Campbell Com 1E

Spike

Source

25400

Project Number: Project Manager:

Reporting

10.0

25100

17065-0017 Chad Snell Reported:

RPD

20

1.19

%REC

05/26/20 13:58

## **Wet Chemistry - Quality Control**

#### **Envirotech Analytical Laboratory**

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2021025 - Wet Chemistry Preparation										
Blank (2021025-BLK1)				Prepared &	: Analyzed:	05/21/20 1				
Specific Conductance (@ 25 C)	ND	10.0	uS/cm							
LCS (2021025-BS1)				Prepared &	: Analyzed:	05/21/20 1				
Specific Conductance (@ 25 C)	1440	10.0	uS/cm	1410		102	98-102			
<b>Duplicate (2021025-DUP1)</b>	Sourc	e: P005059-0	01	Prepared &	: Analyzed:	05/21/20 1				



511 16th Street, Suite 700 Denver CO, 80202 Project Name:

Campbell Com 1E

Project Number: 17065-0017 Project Manager: Chad Snell **Reported:** 05/26/20 13:58

#### **Wet Chemistry - Quality Control**

#### **Envirotech Analytical Laboratory**

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

**Batch 2021027 - Wet Chemistry Preparation** 

LCS (2021027-BS1)		Prepared & Analyzed: 05/21/20 1											
Total Alkalinity (as CaCO3 at pH 4.5)	248	10.0	mg/L	250	99.2	70-130							
<b>Duplicate (2021027-DUP1)</b>	Source: 1	Source: P005068-01			Prepared & Analyzed: 05/21/20 1								
Total Alkalinity (as CaCO3 at pH 4.5)	236	10.0	mg/L	238			0.844	20					

#### QC Summary Report

Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values my differ slightly.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

envirotech-inc.com



Enduring Resources, LLC Project Name: Campbell Com 1E

 511 16th Street, Suite 700
 Project Number:
 17065-0017
 Reported:

 Denver CO, 80202
 Project Manager:
 Chad Snell
 05/26/20 13:58

#### **Notes and Definitions**

M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.

H5 pH is specified to be performed in the field within 15 minutes of sampling. The sample was performed as quickly as possible.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

\*\* Methods marked with \*\* are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

Client: Enduring Resources						Bill To			Lab Use Only						-	TAT EF			PA Program			
Project: Campbell com IE				Attention:			Lab WO#								1D 3D		RA	CWA	SDV	VA		
Project Manager: Chal say				Address:			P005059				17005-0017											
Address: 200 Energy Court				City, State, Zip							Analysis and Method							State				
City, State, Zip Farmington, NM 87401				/	Phone:			15	15								ľ		NM CO	UT	AZ	
Phone: 505 444 0586			52115104853056	Email:								'	7									
Email: 15m (Lagraduring resources com								v 80	1	0	Metals 6010	Chloride 300.0	-10					TX OK				
Email: Con ( penduring resources com Report due by: im chante penduring resources					com	0 p	0 p	802	826	mera (												
Time Date					Lal			DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	als (	oride	Genera					Dom	Dame ele		
Sampled	Sampled	Matrix	Containers	Sample ID	ļ.			Number	DRO	GRO	BTE	000	Met	Chlo	2					Remarks		
	5.10.2.	- 250		100				1							X							
2.00pm	5-18-20	A	2	Brac	Lan He	tead									1							
							8															
										10												
														0.0								
								and the second											li e			
Addition	al Instruc	tions:																				
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, da								n, date or	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.													
time of collec	tion is consider	red fraud and r	nay be grour	ds for legal actio	n. Sampled by:	(25	5-18	3-20		_			received	packee	, in rec at an i					sabsequent days		
Relinquished by: (Signature) Date 5-18-20 2:40			Time	Received by: (Signature)		5-18-20		20 14: 43		7	Lab Use Only											
			2:400							5	Received on ice: Y / N											
Relinquished by: (Signature) Date Time		Time	Received by: (Signature)		Date		Time															
20 MAC										T126.9 T228.2 T326.6												
Relinquished by: (Signature) Date Time		Time	Received by: (Signature)  Date		ate	Time																
											AVG Temp °C 27.3											
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other							C	ontainer	Туре	e: g - s	glass,	<b>p</b> - p					-	VOA				
						– angements are made. Hazardous sam													he abo	ove samples is	applic	able
only to thos	e samples red	eived by the	laboratory	with this COC.	The liability o	f the laboratory is limited to the amou	nt paid for on t	he report.														



Ph (505) 632-1881 Fx (505) 632-1865