

TEP COGCC Rule 317B Surface Water Monitoring Field Form

Project Information			
Surface Water Supply Area:	Battlement Mesa / Parachute ^{note}	Site API(s):	05-045-20061
Site Name (Well Pad(s)):	GV 80-4	Sample Date:	1-31-18
Station Name:	Bm 2	Start Time:	1050
COGCC Facility ID:	707356	End Time:	1120
Field Sample ID:	Bm 2	Sample Time:	1100
Landowner Name:	Battlement Mesa Land Investments	Sample Team:	SCG, NWS
Landowner Address:	736 Siprelle Dr, Parachute	Observer:	NWS
Time of DCPS Operations:	Nov / Dec 2017	Lead Signature/Date:	[Signature] 2-1-18

Station Information			
Station Description:	Wading near bank		
Approximate Distance to Well Pad:	3940 ft		
Station Type:	Stream / Spring / Seep / Pond / Lake / NPDES Outfall / Other: River		
Sampling Location:	Bank / Pipe / <u>Wading</u> / Boat / Bridge / Hose bib / Tank / Other:		
Sampling Location Description:	<u>Pool</u> / Riffle / Eddy / Backwater / Open / Channel / Braided / Other:		
Sampling Location Width:	Q	Sampling Location Depth:	1.5 ft
GPS Location:	Zone	x -108.020862	y 39.46484 z 5092'

Weather Conditions			
Sky:	Clear / Scattered / Cloudy / Overcast	Estimated Air Temp (deg F):	30
Precipitation:	None / Light / Moderate / Heavy	Precip Type:	None / Rain / Sleet / Hail / Snow
Wind:	<u>Calm</u> / Light / Mod / Strong	Wind Speed/Direction:	Q

Field Measurements							
Parameter	Units	Reading	Time	Flag Code	Instrument	In-situ or Container	Comments
Water Temp	deg C	2.22	1103		YSI 556	in-situ	@117 (DUP) 2.29
pH	s.u.	6.86					7.56
Sp. Conductivity	uS/cm	1242					1242
Conductivity	uS/cm	702					703
DO Saturation	%	79.6					79.7
DO	mg/L	10.90					10.89
Baro Press	mmHg	620.3					629.5
ORP	RmV	220.6					190.5
Turbidity	NTU	2.56		AV			2.65, 2.38, 2.76
Discharge	cfs	1160	1115	E			Cameo gauge station
H2S	mg/L	NM					
Color:	Clear / White / Yellow / Brown / Green / Blue / Other			Light / Med / Dark			
Odor:	None / Mild / Mod / Strong						
Effervescence:	None / Mild / Mod / Strong			Bubbles: None / Low / Mod / High			
Sediment:	None / <u>Light</u> / Mod / Heavy			VOA Headspace: None / ≤ Pea Size / ≥ Pea Size			
Lab Analysis:	Rule 317B / Rule 609 / COA 9 / COA 22 / Other						
Field Filtered:	Yes / <u>No</u>	Filter Size:	NA	No. Filters used:	NA		

Flag Codes: NM (not measured), E (estimated), N/A (not applicable), I (insufficient sample), Q (uncertain value), Y (calculated value), AV (averaged value), EC (exceeds calibration range), OT (other flag to be defined later), NS (not stabilized), VAR (variable)

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Landowner Comments on water quality:

None

317B workover for wells PA 374-5 & PA 444-5

Additional information:

Duplicate sample collected labeled CO River @ 0930, actual: 1115

USGS gage station

Cameo (09095500): 1160 cfs @ 1115-1130

Below Glenwood Springs (09085100): 1,360 cfs @ 1115

No TEP representatives present for sampling.

Calibration Information			Date: 1-31-18			Location: field		
Instrument	Parameter	Units	Time	Calibration Standard Value	Calibration Standard Temp (°C)	Instrument Reading of Standard	Adjusted Reading	Comments
YSI 556	pH	s.u.	1037	7.0	16.22	7.03	7.0	
	pH	s.u.	1040	10.01	16.27	9.96	10.01	
	pH	s.u.	1042	4.01	15.316	3.81	3.98	
	SpC	uS/cm	1033	1413	15.96	1444	1413	
	SpC	uS/cm						
	DO	%	1045	6208mmHg	7.71	98.0	83.0	
	DO	%						
	ORP	RmV						
Micro	Turbidity	NTU						