

TEP BWQ Surface Water Monitoring Field Form

Project Information			
Project:	TEP BWQ	Sample Purpose:	2nd Subsequent COGA
Site Name (Well Pad):	GV 84-1	Site API:	05-045-20881
Station Name:	Diamond Elk Cottonwood Creek	Sample Date:	2-12-19
COGCC Facility ID:	753082	Start Time:	1250
Field Sample ID:	Cottonwood Spg 1	End Time:	1320
Landowner Name:	Bum	Sample Time:	1300
Landowner Address:	2200 River Frontage Rd SW	Sample Team:	SLG, NWS
Water Right/Well Owner:	N/A	Observer:	SLG
Water Right/Well Permit:	N/A	Lead Signature/Date:	[Signature] 2-13-19

Station Information			
Station Description: Spring/creek east ~175' from Federal W-34-2 pad			
Approximate Distance to Well Pad: ~2000 ft			
Station Type: Stream / Spring / Seep / Pond / Lake / NPDES Outfall / Other:			
Sampling Location: Bank / Pipe / Wading / Boat / Bridge / Hose bib / Tank / Other:			
Sampling Location Description: Pool / Riffle / Eddy / Backwater / Open / Channel / Braided / Other:			
Sampling Location Width: 5 ft		Sampling Location Depth: 4"	
GPS Location:	Zone	x -107.96097	y 39.46466 z 5548

Weather Conditions	
Sky: Clear / Scattered / Cloudy / Overcast	Estimated Air Temp (deg F): 70
Precipitation: None / Light / Moderate / Heavy	Precip Type: None / Rain / Sleet / Hail / Snow
Wind: Calm / 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	2.71	1300		YSI 550	IN SITU	
pH	s.u.	5.01 A	↓		↓	↓	
Sp. Conductivity	uS/cm	644					
Conductivity	uS/cm	370					
DO Saturation	%	91.8					
DO	mg/L	12.43					
Baro Press	mmHg	623.5					
ORP	RmV	199.8					
Turbidity	NTU	5.68	AV	AV	MICRO		4.78, 6.46, 5.87
Discharge		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 / Light / Mod / Heavy				VOA Headspace: None / ≤ Pea Size / ≥ Pea Size			
Lab Analysis: Rule 609 / COA 9 / COA 22 / Other							
Field Filtered: Yes / No		Filter Size: N/A		No. Filters used: N/A			

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)

TEP BWQ Surface Water Monitoring Field Form

Landowner Comments on water quality:

N/A

Additional information:

Several inches of snow on banks but no ice on the running water.

Did not attempt a discharge measurement.

No TEP representatives present for sampling.

Calibration Information			Date: 2-12-19			Location: WWL Office		
Instrument	Parameter	Units	Time	Calibration Standard Value	Calibration Standard Temp (°C)	Instrument Reading of Standard	Adjusted Reading	Comments
YSI 556	pH	s.u.	825	7.00	21.42	6.96	7.00	
	pH	s.u.	834	10.01	21.52	10.01	10.01	
	pH	s.u.	840	4.01	21.46	4.13	4.03	
	SpC	uS/cm	821	1413	21.39	1436	1413	
	SpC	uS/cm	846					
8	DO	%	855	645.4 mg/L	21.00	85.1	84.9	
	DO	%						
	ORP	RmV						
	Turbidity	NTU						