

TEP BWQ Surface Water Monitoring Field Form

Project Information			
Project:	TEP GM 245-1 BWQ	Sample Purpose:	Annual COA
Site Name (Well Pad):	GM 245-1	Site API:	05-045-18426
Station Name:	Hayes Gulch Down	Sample Date:	4-26-17
COGCC Facility ID:	755511	Start Time:	1040
Field Sample ID:	Hayes Gulch Down	End Time:	1100
Landowner Name:	TEP Rocky Mtn LLC	Sample Time:	1050
Landowner Address:	PO Box 330, Gainesville, TX	Sample Team:	SLG, MWS
Water Right/Well Owner:	NA	Observer:	SLG
Water Right/Well Permit:	NA	Lead Signature/Date:	<i>[Signature]</i> 4-27-17

Station Information			
Station Description: Slightly upstream of culvert, west side of road			
Approximate Distance to Well Pad: 1595 ft			
Station Type: <u>Stream</u> / Spring / Seep / Pond / Lake / NPDES Outfall / Other:			
Sampling Location: <u>Bank</u> / Pipe / Wading / Boat / Bridge / Hose bib / Tank / Other:			
Sampling Location Description: Pool / Riffle / Eddy / Backwater / Open / <u>Channel</u> / Braided / Other:			
Sampling Location Width: 2 ft		Sampling Location Depth: 2.3'	
GPS Location:	Zone 12S	Y 0753629 39.46574	X 4372611 -109.05181

Weather Conditions	
Sky: Clear / Scattered / Cloudy / <u>Overcast</u>	Estimated Air Temp (deg F): 50
Precipitation: <u>None</u> / Light / Moderate / Heavy	Precip Type: <u>None</u> / 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	12.5	1055		YSI PRO	IN-SITU	
pH	s.u.	8.72	↓		↓	↓	
Sp. Conductivity	uS/cm	723					
Conductivity	uS/cm	549					
DO Saturation	%	81.9					
DO	mg/L	8.77					
Baro Press	mmHg	626.3	↓		↓		
ORP	RmV	174.3					
Turbidity	NTU	12.59		AV	micro		12.92, 12.74, 12.12
Discharge		NM					
Color: <u>Clear</u> / White / Yellow / Brown / Green / Blue / Other <u>Light</u> / Med / Dark							
Odor: <u>None</u> / Mild / Mod / Strong							
Effervescence: <u>None</u> / Mild / Mod / Strong				Bubbles: <u>None</u> / Low / Mod / High			
Sediment: <u>None</u> / Light / Mod / Heavy				VOA Headspace: <u>None</u> / ≤ Pea Size / ≥ Pea Size			
Lab Analysis: Rule 609 / COA 9 / COA 22 / <u>Other</u>							
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

Additional information:

No TEP representatives present for sampling.

Calibration Information			Date: <u>4-26-2017</u>			Location:		
Instrument	Parameter	Units	Time	Calibration Standard Value	Calibration Standard Temp (°C)	Instrument Reading of Standard	Adjusted Reading	Comments
<u>YSI pro</u>	pH	s.u.	<u>1019</u>	<u>7.0</u>	<u>20.4</u>	<u>7.09</u>		
	pH	s.u.	<u>1024</u>	<u>4.01</u>	<u>19.7</u>	<u>4.00</u>		
	pH	s.u.	<u>1031</u>	<u>10.01</u>	<u>19.9</u>	<u>9.99</u>	<u>9.97</u>	
	SpC	uS/cm	<u>1016</u>	<u>1413</u>	<u>18.0</u>	<u>1392</u>	<u>1413</u>	
	SpC	uS/cm						
	DO	%	<u>1041</u>	<u>624.9 mmHg</u>	<u>17.3</u>	<u>74.4</u>	<u>82.3</u>	
	DO	%						
	ORP	RmV						
	Turbidity	NTU						