

TEP BWQ Surface Water Monitoring Field Form

Project Information			
Project:	RU 11-7 BWA	Sample Purpose:	Form 15 Annual - Resample
Site Name (Well Pad):	RU 11-7	Site API:	045-06818
Station Name:	Federal 5595	Sample Date:	12-5-17
COGCC Facility ID:	752709	Start Time:	1310
Field Sample ID:	Yellow Jacket Spg	End Time:	1330
Landowner Name:	BLM CO River Valley Office	Sample Time:	1320 1315
Landowner Address:	250 River Frontage Rd Sit	Sample Team:	SLB, NUS
Water Right/Well Owner:	BLM	Observer:	SLB
Water Right/Well Permit:	Yellow Jacket Spg	Lead Signature/Date:	J. Good 12-7-17

Station Information			
Station Description: 2" Poly pipe flowing into stock tank			
Approximate Distance to Well Pad: 4200'			
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: end of pipe			
Sampling Location Width: NA		Sampling Location Depth: NA	
GPS Location:	Zone	x -107.80938	y 39.463996 z 7540

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: 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	12.3	1326		YS556	container	
pH	s.u.	7.57	↓		↓	↓	
Sp. Conductivity	uS/cm	633	↓		↓	↓	
Conductivity	uS/cm	400	↓		↓	↓	
DO Saturation	%	15.0	↓		↓	↓	
DO	mg/L	1.86	↓		↓	↓	
Baro Press	mmHg	579.8	↓		↓	↓	
ORP	RmV	90.2 ↓	↓		↓	↓	
Turbidity	NTU	0.91		AV	micro		1.15, 0.85, 0.72
Discharge	gpm	0.12					450 ml/min
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 DFO							
Field Filtered: Yes / No		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:

13:20: discharge

1 min / 450 ml

Resample for PRO only (full sample collected on 11/8/17)

No TEP representatives present for sampling

Calibration info on 52558-m+

Calibration Information			Date:			Location:		
Instrument	Parameter	Units	Time	Calibration Standard Value	Calibration Standard Temp (°C)	Instrument Reading of Standard	Adjusted Reading	Comments
	pH	s.u.						
	pH	s.u.						
	pH	s.u.						
	SpC	uS/cm						
	SpC	uS/cm						
	DO	%						
	DO	%						
	ORP	RmV						
	Turbidity	NTU						



ALS Laboratory Group

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PH: (616) 399-6070

Chain-of-Custody

Form 2021B

PROJECT NAME	PO 11-7 BWR	SAMPLER	Shelby	DATE	12-5-17	TURNAROUND	Standard	WORKORDER #	
FACILITY NAME		EDD FORMAT						PAGE	1 of 1
FACILITY ID (API)		PURCHASE ORDER						DISPOSAL	By Lab or Return to Client
COMPANY NAME	WWL	BILL TO COMPANY	TEP Rocky Mtn LLC						
SEND REPORT TO	Bruce Smith	INVOICE ATTN TO	Mike Gardner						
ADDRESS	743 Horizon Ct, Ste 330	ADDRESS	1058 CR 215						
CITY / STATE / ZIP	Grand Junction, CO 81506	CITY / STATE / ZIP	Parachute, CO 81635						
PHONE	(970) 242-0170	PHONE	(970) 263-2792						
FAX		FAX							
E-MAIL	bsmith@westernwaterandland.com	E-MAIL	mgardner@terraep.com						

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	NG1	BART	BTEX	GRO	DRO	Dissolved Metals, lab filtered	Anions, Alk, TDS, pH, SpC	Total Phosphorus	Dissolved gases - HCl preserved	Dissolved gases - unpreserved
	Yellow Jacket Spg	SW	12-5-17	1315	2	✓	IV					2					
	TRP blank																

Field Parameters							
Temp (°C)	DO (%)	DO (mg/L)	DO (mg/L)	SpC (uS/cm)	ORP (mv)	ORP (mv)	ORP (mv)
10.23	15.0	1.80	1.80	1033	99.8		

*Time Zone (Circle): EST CST MST PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

For metals or anions, please detail analytes below.

Comments:

QC PACKAGE (check below)

LEVEL II (Standard QC)	
LEVEL III (Std QC + forms)	
LEVEL IV (Std QC + forms + raw data)	x

RELINQUISHED BY: J. Good

RECEIVED BY: Shelby Gardner

RELINQUISHED BY:

RECEIVED BY:

RELINQUISHED BY:

RECEIVED BY:

RELINQUISHED BY:

RECEIVED BY:

SIGNATURE: J. Good

PRINTED NAME: Shelby Gardner

DATE: 12-5-17

TIME: 1430

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Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035