WPX BWQ Surface Water Monitoring Field Form

Project Information			
Project:	BWQ: RU 11-7	Sample Purpose:	COA 9 ~~Rule 609~~ SW 2
Site Name (Well Pad):	RU 11-7	Site API:	045-06818
Station Name:	Federal 5595	Sample Date:	3-5-15
COGCC Facility ID:	752709	Start Time:	0830
Field Sample ID:	Yellow Jacket SPG	End Time:	0930
Landowner Name:	BLM CO River Valley Office	Sample Time:	0840
Landowner Address:	2300 River Frontage Rd, Silt	Sample Team:	SLK, NWS
Water Right/Well Owner:	BLM	Observer:	SLK
Water Right/Well Permit:	Yellow Jacket Spring	Lead Signature/Date:	3-13-15

Station Information	
Station Description:	2" poly pipe flowing into stock tank
Approximate Distance to Well Pad:	4,200 ft
Station Type:	Stream / Spring / Seep / Pond / Lake / NPDES Outfall / Other:
Sampling Location:	Bank / Pipe / Wading / Boat / Bridge / Hose bib / Tank / Other: end of pipe
Sampling Location Description:	Pool / Riffle / Eddy / Backwater / Open / Channel / Braided / Other: end of pipe
Sampling Location Width:	N/A Sampling Location Depth: N/A
GPS Location:	Zone x -107.809388 y 39.463996 z 7540 ft

Weather Conditions			
Sky:	Clear / Scattered / Cloudy / Overcast	Estimated Air Temp (deg F):	20
Precipitation:	None / Light / Moderate / Heavy	Precip Type:	None / Rain / Sleet / Hail / Snow
Wind:	Calm / Light / Mod / Strong	Wind Speed/Direction:	Ø

Field Measurements

Parameter	Units	Reading	Time	Flag Code	Instrument	In-situ or Container	Comments @ 926
Water Temp	deg C	1.54	912/0926		YSI 556	cont.	1.92
pH	s.u.	1.90					6.78
Sp. Conductivity	uS/cm	630					641
Conductivity	uS/cm	349					359
DO Saturation	%	31.3					30.6
DO	mg/L	4.31					4.12
Baro Press	mmHg	578.7					579.1
ORP	RmV	250.5					-3.0
Turbidity	NTU	0.21		AV	MICROTPI		0.14, 0.34, 0.15
Discharge	gpm	0.141			beaker		800mL/1.5min

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: 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:

0731 just checked w/ pH standard 7.00, instrument reads 7.01

0926: took 2nd set of parameters. pH read 6.78. See comments in field measurements

YSI pH sensor slow to respond. Likely due to cold water temp

Forgot to measure H_2S

No landowners or WPX representatives present for sampling.

Calibration Information			Date: 3-5-15			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.	0629	7.0	22.50	7.01	7.00	
	pH	s.u.	0631	10.01	22.46	10.00	10.01	
	pH	s.u.	0633	4.01	22.39	399	4.00	
	SpC	uS/cm	0624	2070	22.22	2069	2070	
	SpC	uS/cm						
	DO	%	0642	684.3 mmHg	22.31	85.9	85.3	
	DO	%						
	ORP	RmV						
MicroTPI	Turbidity	NTU	0641	1000, 10, 002			1000, 10, 002	

WPX BWQ Surface Water Monitoring Field Form

Project Information			
Project:	WPX BWQ	Sample Purpose:	COA 9 Subsequent 2 H_2S only
Site Name (Well Pad):	RU 11-7	Site API:	045-06878
Station Name:	Federal 5595	Sample Date:	3-12-15
COGCC Facility ID:	752709	Start Time:	1015
Field Sample ID:	Yellow Jacket SPG	End Time:	1120
Landowner Name:	BLM CO River Valley Field Office	Sample Time:	NA H_2S only
Landowner Address:	2300 River Frontage Road, Silt	Sample Team:	SLK, NWS
Water Right/Well Owner:	BLM	Observer:	~~NA~~ SLK
Water Right/Well Permit:	Yellow Jacket Spring	Lead Signature/Date:	3-13-15

Station Information			
Station Description:	2" Poly pipe Flowing into stock tank		
Approximate Distance to Well Pad:	4,200 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:	end of pipe	
Sampling Location Width:	N/A	Sampling Location Depth:	N/A
GPS Location:	Zone	x -107.809358	y 39.463996 z 7540 ft

Weather Conditions			
Sky:	Clear / Scattered / Cloudy / Overcast	Estimated Air Temp (deg F):	40
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 YSI 556	YSI PRO
Water Temp	deg C	2.56	1030		YSI 556	container	3.03, 2.94	2.8
pH	s.u.	4.27	↓		↓	↓	5.98, 6.21	6.304
Sp. Conductivity	uS/cm	629					629, 631	592.2
Conductivity	uS/cm	358					365, 366	344.1
DO Saturation	%	18.2					23.8, 22.7	22.2
DO	mg/L	3.83					3.18, 3.07	2.96
Baro Press	mmHg	582.2					582.2, 582.4	582.6
ORP	RmV	125.0					27.7, 15.2	34.3
Turbidity	NTU	0.38		AV	Micro TPI		0.42, 0.42, 0.29	
Discharge	gpm	0.159			beaker		600 ml/min	
H_2S	mg/L	0.0	1024	AV	HACH HS-C		0.0, 0.0	
Colorimeter	mg/L	0.0	1045	AV	Colorimeter		0.0, 0.0	

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 NA
Lab Analysis:	Rule 609 / COA 9 / COA 22 / Other	NA — field H_2S only	
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:

1040: Spot check YSI 556 w/ 10.01 solution 10.10
7.00 solution: 7.02
Calibrated YSI pro
Both YSI meters pH sensor slow to respond. Likely due to cold water temp.

H_2S only no sample taken. Forgot to measure H_2S in the field when sample was collected on 3-5-15.

No landowners or WPX representatives present.

Calibration Information			Date: 3-12-15			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.	0758	7.0	22.99	7.03	7.00	
	pH	s.u.	0800	10.01	22.95	9.96	10.01	
	pH	s.u.	0803	4.01	22.95	3.91	3.99	
	SpC	uS/cm	0756	2070	22.78	2097	2070	
	SpC	uS/cm						
	DO	%	0812	644.6 mmHg	22.73	84.7	84.8	
	DO	%						
	ORP	RmV						
Micro TPI	Turbidity	NTU	0808					