

WPX BWQ Surface Water Monitoring Field Form

Project Information			
Project:	RMV 108-4 BWQ	Sample Purpose:	Rule 609 Subsequent 1
Site Name (Well Pad):	RMV 108-4	Site API:	05-045-07194
Station Name:	Mackley Gardner Spring 907	Sample Date:	10-7-14
COGCC Facility ID:	752713	Start Time:	1030
Field Sample ID:	RMV 108-4 Gardner Spg	End Time:	1120
Landowner Name:	Arnold + Darleen Mackley	Sample Time:	1035
Landowner Address:	4031 CR 320, Rifle, CO 81650	Sample Team:	SLK, NWS
Water Right/Well Owner:	Arnold Mackley	Observer:	SLK
Water Right/Well Permit:	Gardner ^{NS} Spg Spring	Lead Signature/Date:	10-8-14

Station Information			
Station Description: Hose connection in field by stake			
Approximate Distance to Well Pad: 1,100 FT			
Station Type: Stream / <u>Spring</u> / Seep / Pond / Lake / NPDES Outfall / Other:			
Sampling Location: Bank / Pipe / Wading / Boat / Bridge / <u>Hose bib</u> / Tank / Other:			
Sampling Location Description: Pool / Riffle / Eddy / Backwater / Open / Channel / Braided / Other: <u>Hose bib</u>			
Sampling Location Width: N/A		Sampling Location Depth: N/A	
GPS Location:	Zone	x -107.885396	y 39.471782 z 5624

Weather Conditions	
Sky: Clear / <u>Scattered</u> / Cloudy / Overcast	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: NM

Field Measurements							
Parameter	Units	Reading	Time	Flag Code	Instrument	In-situ or Container	Comments
Water Temp	deg C	13.56	1117		YSI 556	Container	
pH	s.u.	7.13	↓		↓	↓	
Sp. Conductivity	uS/cm	756					
Conductivity	uS/cm	590					
DO Saturation	%	55.7					
DO	mg/L	5.79					
Baro Press	mmHg	623.9					
ORP	RmV	198.0					
Turbidity	NTU	1.35		AV	microTPW		1.34, 1.27, 1.45
Discharge	<u>gpm</u>	10.4 4.8		VAR	bucket/watch		
H2S	mg/L	NM					
Color:		<u>Clear</u> / White / Yellow / Brown / Green / Blue / Other			Light / 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:		<u>Rule 609</u> / COA 9 / COA 22 / Other					
Field Filtered:		<u>Yes</u> / <u>No</u>		Filter Size: <u>NA</u>		No. Filters used: <u>NA</u>	

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:

Mr. Mackley mentioned that he blew out the line yesterday to this spring. Made discharge faster than previously.

Additional information:

1100 Discharge: $5 \text{ gal} / 1 \text{ min } 2.48 \text{ sec} = 4.8 \text{ gpm}$

1100: water was pretty cloudy + had algae, stopped filling sample bottles and let the spring water clear up by running at full discharge ~20 min. Resume sampling at 1100.

Duplicate sample taken at site: RMV 108-4-Spring
Time on COC: 0820, Actual sample time: 1130

Gary Reed present for sampling. Arnold Mackley present.

Calibration info on 'RMV 108-4-Garden Spg'

Calibration Information			Date: 10-7-14		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						