

TEP COGCC Rule 317B Surface Water Monitoring Field Form

| Project Information | | | |
|----------------------------|----------------------------|----------------------|------------------|
| Surface Water Supply Area: | Battlement mesa Parachute | Site API(s): | 05-045-19217 |
| Site Name (Well Pad(s)): | PA 21-9 | Sample Date: | 11-21-16 |
| Station Name: | B29 | Start Time: | # 1050 |
| COGCC Facility ID: | 754438 | End Time: | 1115 |
| Field Sample ID: | B29 | Sample Time: | 1105 |
| Landowner Name: | Battlement mesa Land Ind | Sample Team: | SLG, JNP |
| Landowner Address: | 739 Sippolee Tr, Parachute | Observer: | JNP |
| Time of DCPS Operations: | Sept 10th 2016 | Lead Signature/Date: | J. Good 11-21-16 |

| Station Information | | | |
|---|------|----------------------------|-------------------|
| Station Description: Wading @ near banks on boulders | | | |
| Approximate Distance to Well Pad: 5400 ft | | | |
| Station Type: Stream / Spring / Seep / Pond / Lake / NPDES Outfall / Other: CO River | | | |
| 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: Q | | Sampling Location Depth: Q | |
| GPS Location: | Zone | x -108.62234 | y 39.40433 z 4991 |

| 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: | Calm / <u>Light</u> / Mod / Strong | Wind Speed/Direction: Q | |

| Field Measurements | | | | | | | |
|--------------------|-------|---------|------|-----------|------------|----------------------|----------------------------|
| Parameter | Units | Reading | Time | Flag Code | Instrument | In-situ or Container | Comments |
| Water Temp | deg C | 5.4 | 1110 | | YSI PRO | In Situ | |
| pH | s.u. | 7.95 | ↓ | | ↓ | ↓ | |
| Sp. Conductivity | uS/cm | 1407 | | | | | |
| Conductivity | uS/cm | 881 | | | | | |
| DO Saturation | % | 87.7 | | | | | |
| DO | mg/L | 11.02 | | | | | |
| Baro Press | mmHg | 629.4 | | | | | |
| ORP | RmV | 163.1 | ↓ | | | | |
| Turbidity | NTU | 9.82 | 1112 | AV | | | 9.07, 11.82, 8.57 |
| Discharge | | NM | | | | | see back for gage stations |
| H2S | mg/L | | | | | | |

| | | | |
|-----------------|---|--|------------------------------|
| Color: | Clear / 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 317B</u> / Rule 609 / COA 9 / COA 22 / Other | | |
| Field Filtered: | Yes / <u>No</u> | Filter Size: <u>N/A</u> | No. Filters used: <u>N/A</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:

None

Additional information:

USGS gage stations

Cameo (09095500): 1600 cfs @ 1100-1300

Pelaw Glenwood Springs (09085100): 1420 cfs @ 1030-1045

No ~~us~~ TEP representatives present for sampling.

Calibration info on B30, 11-21-16

| 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 | | | | | | |