



Water-Data Report 2007

451340106295501 HANGING WOMAN CREEK BELOW HAY GULCH, NEAR BIRNEY, MT

Tongue Basin
Upper Tongue Subbasin

LOCATION.--Lat 45°13'40", long 106°29'55" referenced to North American Datum of 1927, in NW ¼ NW ¼ SW ¼ sec.17, T.7 S., R.43 E., Rosebud County, MT, Hydrologic Unit 10090101, at road crossing, 0.5 mi below Hay Gulch, and 8 mi south of Birney.

DRAINAGE AREA.--Not determined.

GAGE.--None. Elevation of site is 3,270 ft, referenced to the National Geodetic Vertical Datum of 1929.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--June 2005 to current year.

REMARKS.-- The water-quality sample collected at this site was made in conjunction with aquatic ecology samples collected for an interagency task group studying the effects of coal-bed natural gas development. Additional information is available at: <http://wy.water.usgs.gov/projects/atg/index.htm>.

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Part 1 of 3

Date	Time	Instantaneous discharge, cfs (00061)	Turbidity white light, det ang 90+/-30 corrctd NTRU (63676)	pH, water, unfltrd std units (00400)	Specific conductance, wat unfiltered, μS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)
Jul												
10...	1800	.49	1.4	8.5	3,650	27.5	930	98.5	166	16.5	7.9	554

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Part 2 of 3

Date	Alkalinity, water fltrd end lab, mg/L as CaCO3 (29801)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate, water, fltrd, mg/L (00945)	Dis-solved solids, sum of constituents, mg/L (70301)	Dis-solved solids, tons/acre-ft (70303)	Dis-solved solids, tons/d (70302)
Jul								
10...	415	17.9	.84	2.54	1,710	2,810	3.82	3.72

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 3 of 3

Date	Time	Biomass peri- phyton, ashfree drymass g/m2 (49954)	Peri- phyton biomass ash weight, g/m2 (00572)	Peri- phyton biomass dry weight, g/m2 (00573)	Biomass chloro- phyll ratio, peri- phyton, number (70950)	Chloro- phyll a peri- phyton, chromo- fluoro, mg/m2 (70957)	Pheo- phytin a, peri- phyton, mg/m2 (62359)
Jul							
10...	1515	23.4	770	792	1,450	16.1	17.6