



Water-Data Report 2007

445957106524701 TONGUE RIVER BELOW YOUNGS CREEK, NEAR DECKER, MT

Tongue Basin
Upper Tongue Subbasin

LOCATION.--Lat 44°59'57", long 106°52'47" referenced to North American Datum of 1927, in NE ¼ NE ¼ SW ¼ sec.31, T.9 S., R.40 E., Big Horn County, MT, Hydrologic Unit 10090101, 0.20 mi downstream of Montana-Wyoming state line, about 3 mi below the mouth of Youngs Creek, and about 2 mi south of Decker.

DRAINAGE AREA.--Not determined.

WATER-QUALITY RECORDS

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

GAGE.--None. Elevation of site is 3,470 ft, referenced to the National Geodetic Vertical Datum of 1929.

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	Instan- taneous dis- charge, cfs (00061)	Turbdty white light, 90+/-30 corrctd NTRU (63676)	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd field, std units (00400)	Specif- ic conduc- tance, wat un- f µS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnes- ium, water, fltrd, mg/L (00925)
Aug 29...	1045	52	7.0	677	11.4	139	8.4	569	24.0	19.0	280	56.5	33.2

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

Part 2 of 3

Date	Potas- sium, water, fltrd, mg/L (00935)	Sodium adsorp- tion ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Alka- linity, wat flt fxd end lab, mg/L as CaCO3 (29801)	Chlor- ide, water, fltrd, mg/L (00940)	Fluor- ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Dis- solved, solids, sum of consti- tuents mg/L (70301)	Dis- solved, solids, tons/ acre-ft (70303)	Dis- solved, solids, tons/d (70302)
Aug 29...	2.81	.5	20.6	219	3.88	.24	5.75	90.7	345	.47	48.4

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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)
Aug 29...	0835	22.2	710	730	909	24.4	18.6