



Water-Data Report 2007

**06296003 ROSEBUD CREEK AT MOUTH, NEAR ROSEBUD, MT**

Lower Yellowstone Basin  
Rosebud Subbasin

LOCATION.--Lat 46°15'53", long 106°28'30" referenced to North American Datum of 1927, in SW ¼ NW ¼ NE ¼ sec.21, T.6 N., R.42 E., Rosebud County, MT, Hydrologic Unit 10100003, on left bank 0.4 mi upstream from bridge on Interstate Highway 94, 0.8 mi upstream from mouth, and 1.6 mi southwest of Rosebud.

DRAINAGE AREA.--1,302 mi<sup>2</sup>.

GAGE--None. Elevation at the site is 2,480 ft referenced to the National Geodetic Vertical Datum of 1929.

**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--Water years 1975-86, 1988-93, May 1999 to June 2003, May 2004 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 2

Date	Time	Instan- taneous dis- charge, cfs (00061)	Turbdty white light, det ang 90+/-30 corrctd NTRU (63676)	pH, water, unfltrd field, std units (00400)	Specif- ic conduc- tance, wat unf µS/cm 25 degC (00095)	Temper- ature, deg C (00010)	Hard- ness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnes- ium, water, fltrd, mg/L (00925)	Potas- sium, water, fltrd, mg/L (00935)	Sodium adsorp- tion ratio (00931)	Sodium water, fltrd, mg/L (00930)	Alka- linity, wat flt
													Alka- linity, wat flt lab, mg/L as CaCO3 (29801)
Jul													
23...	1700	19	45	8.3	1,790	30.0	670	68.8	120	12.2	2.8	166	384

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

Part 2 of 2

Date	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)
23...	8.92	.70	10.9	617	1,230	1.68	64.3