



Water-Data Report 2006

12472900 COLUMBIA RIVER AT VERNITA BRIDGE, NEAR PRIEST RAPIDS DAM, WA

Upper Columbia Basin
Upper Columbia-Priest Rapids Subbasin

LOCATION.--Lat 46°38'24", long 119°43'54" referenced to North American Datum of 1927, in NW ¼ SE ¼ sec.6, T.13 N., R.25 E., Grant County, WA, Hydrologic Unit 17020016, at State Highway 24 Vernita Bridge crossing, 9.0 mi downstream from Priest Rapids Dam, and at mile 388.1.

DRAINAGE AREA.--96,000 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1962-63, 1972, 1974 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: July 1974 to September 1980.

REMARKS.--October 1971 to September 1972, at site 6.4 mi upstream, published as 12472800 "below Priest Rapids Dam." Prior to October 1971 published as 12472800 "at Vernita Ferry." Discharge determined by routing flows from the gaging station below Priest Rapids Dam (station 12472800) 6.4 miles upstream. National Stream Quality Accounting Network (NASQAN) 1975-2000.

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**

Part 1 of 4

[Remark codes: <, less than; E, estimated.]

Date	Time	Instantaneous discharge, cfs (00061)	Turbidity white light, det ang 90+/-30 corrctd NTRU (63676)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Noncarb hardness, wat flt field, mg/L as CaCO3 (00904)	Calcium water, fltrd, mg/L (00915)
Nov													
17...	1020	68,000	<2.0	767	10.3	93	7.8	129	12.1	11.2	62	8	17.8
May													
09...	1000	171,000	2.9	760	12.6	114	7.9	132	19.8	10.8	64	7	18.5
Aug													
22...	1110	113,000	<2.0	749	9.0	103	8.0	131	22.0	21.0	62	11	17.9

12472900 COLUMBIA RIVER AT VERNITA BRIDGE, NEAR PRIEST RAPIDS DAM, WA—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 2 of 4

[Remark codes: <, less than; E, estimated.]

Date	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium fraction of cations percent (00932)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, water fltrd, mg/L as CaCO ₃ (39086)	Bicarbonate, water fltrd, titr., mg/L (00453)	Carbonate, water fltrd, titr., mg/L (00452)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Sulfate, water, fltrd, mg/L (00945)	Residue water, sum of constituents, mg/L (70301)	Residue water, fltrd, tons/acre-ft (70303)
Nov 17...	4.18	.76	.1	7	2.04	53	65	.0	.84	E.05	9.46	67	.11
May 09...	4.40	.87	.1	8	2.60	57	70	.0	1.20	.12	8.41	71	.11
Aug 22...	4.12	.70	.1	7	2.09	51	62	.0	.86	E.07	8.03	64	.10

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 3 of 4

[Remark codes: <, less than; E, estimated.]

Date	Residue water, dissolved, tons/d (70302)	Residue on evap. at 180degC, wat fltrd, mg/L (70300)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia + org-N, water, unfltrd, mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate, water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Total nitrogen, wat unfltrd, by analysis, mg/L (62855)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd, mg/L (00665)	Organic carbon, water, fltrd, mg/L (00681)	Chromium, water, fltrd, ug/L (01030)	Iron, water, fltrd, ug/L (01046)
Nov 17...	14,600	79	<10	E.08	<.04	.10	<.008	.20	<.09	<.04	1.0	.08	<6
May 09...	38,400	83	<10	.14	<.04	.12	<.008	.23	<.02	<.04	1.9	.04	7
Aug 22...	23,200	76	<10	.12	<.010	.07	E.001	.13	E.004	<.04	1.5	.09	E4

12472900 COLUMBIA RIVER AT VERNITA BRIDGE, NEAR PRIEST RAPIDS DAM, WA—Continued**WATER-QUALITY DATA
WATER YEAR OCTOBER 2005
TO SEPTEMBER 2006**

Part 4 of 4

[Remark codes: <, less than;
E, estimated.]

Date	Sus- pended sedi- ment concen- tration mg/L (80154)	Sus- pended sedi- ment dis- charge, tons/d (80155)
Nov 17...	1	184
May 09...	2	923
Aug 22...	1	305