



Water-Data Report 2007

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 2006 TO SEPTEMBER 2007

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 μS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Noncarbohardness, wat flt field, mg/L as CaCO3 (00904)	Calcium water, fltrd, mg/L (00915)
Dec 12...	1110	94,100	<2.0	755	12.2	105	7.6	138	--	8.3	67	8	19.3
May 02...	1110	E171,000	<2.0	743	12.8	120	7.9	137	17.0	11.2	67	11	19.3
Aug 29...	1000	111,000	<2.0	754	10.4	115	7.8	133	28.0	19.6	65	14	18.8

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

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

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 fltr inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, water fltr incrm. titr., field, mg/L (00453)	Carbonate, water fltr incrm. titr., field, mg/L (00452)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Sulfate, water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue water, fltrd, tons/ acre-ft (70303)
Dec 12...	4.66	.74	.1	6	2.11	59.0	71.8	.1	1.02	.10	8.95	73	.10
May 02...	4.61	.82	.1	8	2.68	56.1	67.9	.2	1.27	E.07	8.54	71	.12
Aug 29...	4.47	.67	.1	6	1.86	51.8	62.8	.1	.82	E.08	9.07	67	.11

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 3 of 4

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

Date	Residue water, dissolved, tons/d (70302)	Residue on evap. at 180degC wat fltr mg/L (70300)	Residue total non-filterable, mg/L (00530)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate + nitrite, water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Total nitrogen, water 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, µg/L (01030)	Iron, water, fltrd, µg/L (01046)
Dec 12...	18,400	72	<10	E.09	<.020	.15	.003	.21	E.004	<.04	1.6	E.11	6
May 02...	--	86	<10	.17	<.020	.10	<.002	.21	<.006	E.02	2.3	E.08	7
Aug 29...	24,900	83	<10	<.10	<.020	E.06	E.002	.15	<.006	<.04	1.5	E.06	<6

12472900 COLUMBIA RIVER AT VERNITA BRIDGE, NEAR PRIEST RAPIDS DAM, WA—Continued**WATER-QUALITY DATA
WATER YEAR OCTOBER 2006
TO SEPTEMBER 2007**

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)
Dec 12...	1	254
May 02...	2	518
Aug 29...	2	518