

PUYALLUP RIVER BASIN

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12100500 WHITE RIVER NEAR SUMNER, WA

WATER-QUALITY RECORDS

LOCATION.--Lat 47°14'58", long 122°14'36", in NE 1/4 SW 1/4 sec.1, T.20 N., R.4 E., Pierce County, Hydrologic Unit 17110014, on right bank, 300 feet downstream from 8th Street E. bridge, 3.3 miles north of Sumner, WA, and at mile 4.9.

DRAINAGE AREA.--470 mi².

PERIOD OF RECORD.--Water years 1961-75, August to September 2002.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: August to September 2002.

pH: August to September 2002.

WATER TEMPERATURE: August to September 2002.

DISSOLVED OXYGEN: August to September 2002.

INSTRUMENTATION.--Water-quality monitor since August 2002. Electronic data logger with 30-minute logging interval.

REMARKS.--Interruption in record due to malfunction of the recording instrument and removal for servicing. Specific conductance records good. pH records good, except for Aug. 8-9, which are fair. Water temperature records excellent. Dissolved-oxygen records good, except for Sept. 23-30, which are poor.

EXTREMES FOR PERIOD OF DAILY RECORD.--No previous record.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 88 uS/cm on Sept. 29; minimum recorded, 50 uS/cm on Aug. 3, but may have been lower during periods of missing record.

pH: Maximum recorded, 9.0 units on Sept. 13-14 and Sept. 28-30, but may have been higher during periods of missing record; minimum recorded, 7.2 units on Aug. 3 and 9, but may have been lower during periods of missing record.

WATER TEMPERATURE: Maximum recorded, 21.1°C on Aug. 28, but may have been higher during periods of missing record; minimum recorded, 9.6°C on Sept. 22.

DISSOLVED OXYGEN: Maximum recorded, 11.6 mg/L Sept. 28; minimum recorded, 8.0 mg/L Sept. 9.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), AUGUST TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
	AUGUST			SEPTEMBER		
1	---	---	---	69	66	68
2	---	---	---	68	61	65
3	66	50	56	67	63	65
4	59	56	58	71	61	66
5	61	58	59	75	70	71
6	64	60	62	78	72	75
7	---	---	---	78	75	77
8	---	---	---	80	76	77
9	69	66	68	83	79	80
10	67	62	65	83	80	82
11	64	60	62	81	77	79
12	65	60	62	77	74	75
13	---	---	---	76	72	74
14	---	---	---	76	71	73
15	---	---	---	73	70	72
16	---	---	---	73	69	71
17	60	57	59	77	70	74
18	62	59	61	---	---	---
19	64	61	63	---	---	---
20	65	61	63	78	74	76
21	65	62	64	79	72	74
22	66	60	63	82	76	78
23	64	59	62	84	76	80
24	61	57	59	84	78	80
25	63	57	60	86	78	81
26	68	63	66	87	79	83
27	70	65	68	87	79	83
28	68	62	66	87	82	84
29	66	61	64	88	81	84
30	66	62	64	87	82	84
31	69	62	66	---	---	---
MONTH	70	50	63	88	61	76
YEAR	88	50	70			

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PH, WATER, WHOLE, FIELD, STANDARD UNITS, AUGUST TO SEPTEMBER 2002

DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
1	---	---	---	7.7	7.5	7.5
2	---	---	---	7.6	7.4	7.5
3	7.4	7.2	7.3	7.6	7.4	7.5
4	7.4	7.4	7.4	7.7	7.4	7.5
5	7.5	7.4	7.4	7.8	7.4	7.5
6	7.6	7.4	7.4	7.9	7.5	7.5
7	---	---	---	8.1	7.5	7.6
8	---	---	---	8.1	7.5	7.6
9	7.7	7.2	7.4	8.5	7.5	7.6
10	7.6	7.4	7.5	8.8	7.5	7.6
11	7.8	7.5	7.7	8.9	7.5	7.6
12	7.8	7.4	7.6	8.9	7.4	7.5
13	---	---	---	9.0	7.4	7.5
14	---	---	---	9.0	7.4	7.5
15	---	---	---	8.4	7.5	7.5
16	---	---	---	8.4	7.4	7.5
17	7.8	7.5	7.6	8.8	7.5	7.5
18	7.6	7.5	7.6	---	---	---
19	7.6	7.5	7.6	---	---	---
20	7.7	7.5	7.6	8.9	7.5	7.5
21	7.6	7.5	7.6	8.7	7.4	7.5
22	7.6	7.5	7.5	8.8	7.4	7.5
23	7.6	7.5	7.5	8.8	7.3	7.5
24	7.6	7.4	7.5	8.9	7.3	7.4
25	7.5	7.4	7.5	8.9	7.3	7.4
26	7.6	7.4	7.5	8.9	7.3	7.5
27	7.6	7.4	7.4	8.9	7.3	7.4
28	7.6	7.4	7.4	9.0	7.3	7.5
29	7.6	7.4	7.5	9.0	7.3	7.6
30	7.6	7.5	7.5	9.0	7.4	7.5
31	7.7	7.4	7.5	---	---	---
MAX	7.8	7.5	7.7	9.0	7.5	7.6
MIN	7.4	7.2	7.3	7.6	7.3	7.4
YEAR	MAX			MAXIMUM 9.0	MINIMUM 7.4	
	MIN			MAXIMUM 7.5	MINIMUM 7.2	
	MEDIAN			MAXIMUM 7.7	MINIMUM 7.3	

TEMPERATURE, WATER (DEG. C), AUGUST TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	16.6	14.1	15.3
2	---	---	---	16.0	12.7	14.5
3	16.0	12.0	13.7	17.6	13.3	15.1
4	15.2	13.0	13.9	16.6	11.4	13.9
5	15.8	11.7	13.4	16.3	10.7	13.4
6	15.5	12.6	13.7	16.4	11.3	13.7
7	---	---	---	15.8	12.2	13.7
8	---	---	---	13.7	10.9	12.5
9	19.2	14.0	16.3	17.7	12.0	14.5
10	16.8	14.1	16.0	18.5	13.3	15.8
11	18.3	13.9	15.9	18.6	13.5	16.0
12	18.8	14.4	16.3	18.9	13.6	16.1
13	---	---	---	19.0	13.5	16.2
14	---	---	---	18.7	13.7	16.1
15	---	---	---	16.4	14.3	15.1
16	---	---	---	15.3	13.2	14.3
17	18.1	14.2	15.8	16.2	12.4	14.0
18	17.0	13.6	15.1	---	---	---
19	16.0	13.4	14.5	---	---	---
20	15.3	13.4	14.6	16.2	12.4	14.1
21	15.3	12.5	13.5	14.4	9.9	12.3
22	17.6	12.6	14.8	14.7	9.6	12.1
23	18.6	14.1	16.1	15.6	10.5	12.9
24	18.2	14.8	16.3	16.0	11.2	13.5
25	15.9	14.8	15.4	15.9	11.3	13.5
26	17.3	13.6	15.4	14.8	11.2	12.9
27	19.7	13.3	16.3	14.7	10.8	12.6
28	21.1	14.5	17.6	15.0	10.6	12.7
29	20.4	15.4	17.6	13.6	11.5	12.5
30	19.1	14.4	16.4	12.3	9.8	11.0
31	18.3	12.5	15.4	---	---	---
MONTH	21.1	11.7	15.4	19.0	9.6	13.9
YEAR	21.1	9.6	14.6			

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OXYGEN DISSOLVED (MG/L), AUGUST TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
AUGUST			SEPTEMBER			
1	---	---	---	9.5	8.9	9.3
2	---	---	---	10.0	9.2	9.6
3	10.7	9.6	10.2	9.8	8.9	9.4
4	10.4	10.0	10.2	10.2	9.4	9.8
5	10.7	9.9	10.4	10.7	9.4	10.0
6	10.6	9.9	10.3	10.7	9.4	10.0
7	---	---	---	10.5	9.6	10.0
8	---	---	---	10.9	9.8	10.3
9	9.8	8.9	9.4	10.3	8.0	9.4
10	9.7	9.1	9.3	10.7	8.9	9.7
11	9.7	8.9	9.4	10.6	8.9	9.7
12	9.8	8.9	9.3	10.5	9.0	9.7
13	---	---	---	10.6	8.6	9.8
14	---	---	---	9.6	8.3	8.9
15	---	---	---	10.4	8.8	9.7
16	---	---	---	10.5	9.5	9.9
17	9.7	9.0	9.4	10.4	9.4	9.9
18	9.9	9.2	9.6	---	---	---
19	10.0	9.5	9.8	---	---	---
20	10.2	9.6	9.9	10.6	9.0	9.7
21	10.4	9.4	9.9	11.0	9.3	10.0
22	10.0	9.1	9.6	11.0	9.2	10.1
23	9.7	8.9	9.4	11.5	9.2	10.0
24	9.6	9.0	9.3	11.0	9.4	10.1
25	9.7	9.3	9.5	11.2	9.4	10.2
26	9.8	9.2	9.6	11.2	9.6	10.3
27	10.2	8.8	9.6	11.1	9.3	10.2
28	9.7	8.4	9.1	11.6	9.0	10.2
29	9.4	8.4	8.9	10.9	9.2	10.0
30	9.6	8.8	9.2	11.4	9.7	10.4
31	10.0	8.7	9.4	---	---	---
MONTH	10.7	8.4	9.6	11.6	8.0	9.9
YEAR	11.6	8.0	9.7			