

SOUTHEAST ALASKA

15015595 UNUK RIVER BELOW BLUE RIVER NEAR WRANGELL

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 2003 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: April 2003 to current year.

INSTRUMENTATION.--Digital water-temperature recorder with 15-minute recording interval.

REMARKS.--No record from November 5 - March 31, due to probe out of water. Records represent water temperature at the sensor within 0.5°C. Temperature at the sensor was compared with the stream average by cross section on March 31 and July 14. No variation was found in the temperature cross sections. No variation was found between mean stream temperature and sensor temperature. Records good while probe was submerged.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 11.0°C, July 9, 23-24, 2004; minimum recorded, 0.5°C December 22, January 14-15, 2004; 0.0°C likely during period of missing record in winter.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 11.0°C, July 9, 23-24; minimum recorded, 0.5°C December 22, January 14-15, 0.0°C likely during period of missing record in winter.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Loca- tion in X-sect. looking dwnstrm ft from l bank (00009)	Specif. conduc- tance, wat unfltrd uS/cm 25 degC (00095)	pH, water, unfltrd std units (00400)	Temper- ature, water, deg C (00010)	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)
MAR								
31...	1800	38.0	150	7.7	4.0	763	12.9	98
31...	1801	113	150	7.7	4.0	763	12.9	98
31...	1802	188	150	7.7	4.0	763	12.9	98
31...	1803	263	151	7.7	4.0	763	12.9	98
JUL								
14...	1817	25.0	72	7.9	9.0	755	11.3	99
14...	1818	85.0	72	7.8	9.0	755	11.1	97
14...	1819	145	71	7.7	9.0	755	11.1	97
14...	1820	205	72	7.7	9.0	755	11.1	97
14...	1821	270	72	7.7	9.0	755	11.1	97

Date	Time	Medium code	Sample type	Gage height, feet (00065)	Instan- taneous dis- charge, cfs (00061)	Sam- pling method, code (82398)	Stream width, feet (00004)	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd std units (00400)	Specif. conduc- tance, wat unfltrd uS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	
OCT	09...	1600	9	9	23.76	5720	10	275	745	11.8	98	7.9	95	--
MAR	31...	1730	9	9	21.64	1740	10	300	763	12.9	98	7.7	150	3.5
JUL	14...	1800	9	9	25.65	11100	10	285	755	11.1	97	7.7	72	18.5
SEP	23...	1330	9	9	26.14	11500	10	255	755	--	--	7.8	74	8.5

Date	Temper- ature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO3 (00900)	Calcium water, recover- able, fltrd, mg/L (00915)	Calcium water unfltrd recovery, mg/L (00916)	Magnes- ium, water, recovery, fltrd, mg/L (00925)	Magnes- ium, water, recovery, unfltrd fltrd, mg/L (00927)	Potas- sium, water, recovery, fltrd, mg/L (00935)	Sodium, water, recovery, fltrd, mg/L (00930)	Alka- linity, wat flt inc tit field, titr., mg/L as CaCO3 (39086)	Bicar- bonate, wat flt incrm. field, titr., mg/L (00453)	Chlor- ide, water, fltrd, mg/L (00940)	Fluor- ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	
OCT	09...	6.5	42	14.5	--	1.33	--	.78	1.47	30	36	.28	<.2	3.98
MAR	31...	4.0	71	24.5	23.3	2.33	2.22	1.18	2.87	48	59	.78	<.2	5.94
JUL	14...	9.0	32	11.4	13.4	.802	2.59	.72	.90	23	28	E.18	<.2	2.60
SEP	23...	6.5	34	11.8	--	1.01	--	.79	1.01	26	32	.21	<.2	3.37

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1501595 UNUK RIVER BELOW BLUE RIVER NEAR WRANGELL—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Strontium, water, unfltrd recover-able, ug/L (01082)	Thallium, water, fltrd, ug/L (01057)	Thallium, water, unfltrd, ug/L (01059)	Vanadium, water, fltrd, ug/L (01085)	Zinc, water, fltrd, ug/L (01090)	Zinc, water, unfltrd recover-able, ug/L (01092)	Uranium natural water, fltrd, ug/L (22703)	Suspended sediment concentration, mg/L (80154)	Suspended sediment discharge, tons/d (80155)	Sampler type, code (84164)
OCT 09...	--	--	--	--	--	--	--	24	371	3054
MAR 31...	122	<.04	<.2	.5	6.2	3	.27	3	14	3044
JUL 14...	69.2	<.04	<.2	.2	1.0	40	.09	209	6260	3054
SEP 23...	--	--	--	--	--	--	--	576	17900	3054

SOUTHEAST ALASKA

1501595 UNUK RIVER BELOW BLUE RIVER NEAR WRANGELL—Continued

TEMPERATURE WATER, (DEGREES CELSIUS), WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	7.0	5.5	6.5	3.0	2.0	2.5	---	---	---	---	---	---
2	7.0	5.5	6.5	3.0	2.5	2.5	---	---	---	---	---	---
3	7.0	5.5	6.0	2.5	2.0	2.0	---	---	---	---	---	---
4	7.0	5.5	6.0	2.0	1.5	1.5	---	---	---	---	---	---
5	6.5	5.5	6.0	---	---	---	---	---	---	---	---	---
6	6.5	6.0	6.0	---	---	---	---	---	---	---	---	---
7	6.5	5.5	6.0	---	---	---	---	---	---	---	---	---
8	6.5	5.5	6.0	---	---	---	---	---	---	---	---	---
9	6.5	6.0	6.0	---	---	---	---	---	---	---	---	---
10	6.5	5.5	6.0	---	---	---	---	---	---	---	---	---
11	6.0	5.0	5.5	---	---	---	---	---	---	---	---	---
12	6.5	5.0	5.5	---	---	---	---	---	---	---	---	---
13	6.0	5.0	5.5	---	---	---	---	---	---	---	---	---
14	6.5	5.5	6.0	---	---	---	---	---	---	---	---	---
15	5.5	4.5	5.0	---	---	---	---	---	---	---	---	---
16	5.5	5.0	5.0	---	---	---	---	---	---	---	---	---
17	6.0	5.5	5.5	---	---	---	---	---	---	---	---	---
18	6.0	5.5	6.0	---	---	---	---	---	---	---	---	---
19	6.0	5.5	6.0	---	---	---	---	---	---	---	---	---
20	6.0	5.0	5.5	---	---	---	---	---	---	---	---	---
21	6.0	5.0	5.5	---	---	---	---	---	---	---	---	---
22	6.0	5.5	5.5	---	---	---	---	---	---	---	---	---
23	6.0	5.0	5.5	---	---	---	---	---	---	---	---	---
24	5.5	5.0	5.0	---	---	---	---	---	---	---	---	---
25	5.5	5.0	5.0	---	---	---	---	---	---	---	---	---
26	5.5	5.0	5.5	---	---	---	---	---	---	---	---	---
27	5.0	4.5	5.0	---	---	---	---	---	---	---	---	---
28	5.0	4.0	4.5	---	---	---	---	---	---	---	---	---
29	4.0	2.5	3.5	---	---	---	---	---	---	---	---	---
30	3.0	2.0	2.5	---	---	---	---	---	---	---	---	---
31	3.0	2.0	2.5	---	---	---	---	---	---	---	---	---
MONTH	7.0	2.0	5.4	---	---	---	---	---	---	---	---	---
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	---	---	---	4.5	2.5	3.5	5.5	3.5	4.5
2	---	---	---	---	---	---	3.5	3.0	3.0	6.0	3.5	4.5
3	---	---	---	---	---	---	4.0	2.5	3.5	6.0	3.5	5.0
4	---	---	---	---	---	---	5.0	3.0	4.0	7.0	3.5	5.0
5	---	---	---	---	---	---	5.0	2.5	3.5	6.5	3.0	5.0
6	---	---	---	---	---	---	5.5	2.5	4.0	7.0	3.0	5.0
7	---	---	---	---	---	---	5.0	3.5	4.5	7.5	4.0	5.5
8	---	---	---	---	---	---	6.5	3.5	4.5	7.0	4.5	6.0
9	---	---	---	---	---	---	5.0	3.0	4.0	6.0	4.5	5.0
10	---	---	---	---	---	---	4.5	3.5	4.0	7.5	4.5	6.0
11	---	---	---	---	---	---	5.5	3.0	4.0	8.0	4.0	6.0
12	---	---	---	---	---	---	4.0	2.5	3.0	8.0	4.0	6.0
13	---	---	---	---	---	---	5.0	3.0	3.5	8.5	4.0	6.5
14	---	---	---	---	---	---	6.0	2.5	4.0	7.5	4.0	6.0
15	---	---	---	---	---	---	5.0	2.0	3.5	8.5	4.0	6.0
16	---	---	---	---	---	---	5.0	2.0	3.5	7.5	4.5	6.0
17	---	---	---	---	---	---	5.0	3.5	4.5	8.5	4.0	6.5
18	---	---	---	---	---	---	6.0	3.5	4.5	9.0	4.5	6.5
19	---	---	---	---	---	---	6.5	3.0	4.5	9.0	4.5	6.5
20	---	---	---	---	---	---	7.0	3.0	5.0	8.5	4.5	6.5
21	---	---	---	---	---	---	7.0	3.5	5.0	8.0	4.0	6.0
22	---	---	---	---	---	---	5.5	3.5	4.0	8.5	4.0	6.0
23	---	---	---	---	---	---	5.5	3.5	4.5	9.0	5.0	7.0
24	---	---	---	---	---	---	4.5	3.5	4.0	7.5	5.0	6.0
25	---	---	---	---	---	---	4.0	3.5	4.0	7.5	5.5	6.5
26	---	---	---	---	---	---	5.0	3.0	4.0	7.0	5.0	6.0
27	---	---	---	---	---	---	7.0	3.5	5.0	8.0	4.5	6.0
28	---	---	---	---	---	---	7.0	3.5	5.5	8.5	5.0	6.5
29	---	---	---	---	---	---	7.5	3.5	5.5	7.5	5.0	6.5
30	---	---	---	---	---	---	7.5	3.5	5.5	8.0	5.5	6.5
31	---	---	---	---	---	---	---	---	---	7.5	5.0	6.5
MONTH	---	---	---	---	---	---	7.5	2.0	4.2	9.0	3.0	5.9

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TEMPERATURE WATER, (DEGREES CELSIUS), WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.0	5.5	6.5	9.0	6.5	7.5	8.5	6.0	7.5	8.0	7.0	7.5
2	8.5	5.5	7.0	8.0	6.5	7.0	8.0	6.5	7.0	8.0	6.5	7.0
3	9.5	5.0	7.5	10.0	6.0	8.0	8.5	6.5	7.5	7.5	7.0	7.0
4	8.0	5.5	7.0	8.5	6.0	7.5	9.0	7.0	7.5	7.5	6.0	7.0
5	8.0	6.0	7.0	7.5	6.5	7.0	8.5	7.0	7.5	8.0	6.5	7.0
6	8.5	5.5	6.5	7.5	6.5	7.0	9.0	7.0	7.5	8.5	6.5	7.5
7	10.0	5.5	7.5	6.5	5.5	6.0	9.0	7.0	7.5	7.5	6.5	7.0
8	9.5	5.5	7.5	9.0	6.0	7.5	9.0	6.5	8.0	8.0	6.0	7.0
9	7.5	5.5	6.5	11.0	6.5	8.5	9.0	7.0	8.0	7.5	6.0	6.5
10	7.5	5.0	6.5	9.0	7.0	8.0	9.0	7.0	8.0	7.5	6.5	7.0
11	8.0	5.5	7.0	9.5	6.5	7.5	8.5	7.0	7.5	7.5	7.0	7.0
12	7.5	5.5	6.5	9.0	6.5	7.5	8.5	7.0	7.5	7.0	6.5	7.0
13	7.0	6.0	6.5	10.5	6.5	8.5	8.5	7.5	7.5	7.0	6.5	7.0
14	8.0	5.5	6.5	9.5	6.5	8.0	8.5	7.5	8.0	7.0	6.5	7.0
15	7.5	6.0	6.5	10.5	6.5	8.5	9.5	7.0	8.0	7.5	6.5	7.0
16	10.5	5.5	8.0	9.0	7.0	8.0	9.0	6.5	8.0	7.5	6.5	7.0
17	10.5	6.0	8.5	9.5	7.0	8.0	10.0	6.5	8.0	7.5	6.5	7.0
18	10.5	6.5	8.5	10.5	6.5	8.5	10.0	6.5	8.0	7.5	7.0	7.0
19	10.5	6.0	8.0	9.0	7.0	7.5	8.5	6.5	7.5	7.5	6.5	7.0
20	10.0	6.0	8.0	8.5	7.0	7.5	8.5	6.5	7.5	7.5	6.5	7.0
21	10.0	6.0	8.0	10.0	7.0	8.0	9.0	6.5	7.5	7.0	6.5	6.5
22	10.0	6.0	8.0	10.5	6.0	8.0	9.5	6.5	7.5	6.5	6.0	6.0
23	10.0	6.0	8.0	11.0	6.5	8.5	9.0	5.5	7.0	6.5	6.0	6.0
24	10.5	6.0	8.0	11.0	6.5	8.5	9.0	6.0	7.5	6.5	6.5	6.5
25	10.0	6.0	8.0	9.0	7.0	8.0	9.0	6.0	7.5	7.0	6.0	6.5
26	10.5	6.5	8.5	9.5	6.5	8.0	8.5	6.5	7.0	7.0	5.5	6.5
27	8.5	6.5	7.5	10.5	6.5	8.5	7.5	6.5	7.0	7.5	6.5	7.0
28	9.5	6.0	7.5	9.0	7.5	7.5	8.0	6.0	7.0	7.0	5.5	6.5
29	9.5	6.5	7.5	9.0	7.0	8.0	8.0	6.5	7.0	7.0	5.5	6.5
30	7.5	6.5	7.0	9.0	6.5	7.5	8.0	6.5	7.0	8.0	6.5	7.0
31	---	---	---	9.0	6.0	7.5	8.0	6.5	7.0	---	---	---
MONTH	10.5	5.0	7.4	11.0	5.5	7.8	10.0	5.5	7.5	8.5	5.5	6.8