

NORTHWEST ALASKA

15625900 STEWART RIVER 0.2 MILE BELOW DURRANT CREEK MOUTH NEAR NOME

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May to September 2004 (discontinued).

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: May to September 2004 (discontinued).

INSTRUMENTATION.--Water-temperature recorder. Electronic water temperature recorder set for 15-minute recording interval.

REMARKS.--Probe installed on May 26. Recorder malfunctioned from May 28 to June 9, and 11. Records represent water temperature at sensor within 0.5°C. Temperature at the sensor was compared with the average for the river by cross section on May 26, and July 28, and September 1. A 0.5°C variation was found May 26 and July 28. No variation was found September 1. No variation was found between mean stream temperature and sensor temperature.

EXTREMES FOR CURRENT PERIOD.--

WATER TEMPERATURE: Maximum, 18.5°C, July 22 and 24; minimum recorded, 0.5°C, May 27.

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

Date	Time	Location in X-sect. looking downstrm ft from 1 bank (000009)	Specif. conduc- tance, wat unf uS/cm 25 degC (000095)	pH, water, unfltrd field, std units (00400)	Temper- ature, deg C (00010)	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)						
MAY														
26...	1831	16.0	83	7.2	4.5	751	11.9	93						
26...	1833	36.0	83	7.2	4.5	751	11.8	93						
26...	1834	76.0	83	7.2	4.5	751	11.8	93						
26...	1835	96.0	83	7.2	4.5	751	11.8	93						
26...	1836	116	84	7.2	4.5	751	11.7	92						
26...	1837	136	84	7.2	5.0	751	11.7	93						
JUL														
28...	1505	64.0	201	7.6	13.5	743	10.3	101						
28...	1506	49.0	202	7.6	13.0	743	9.9	96						
28...	1507	34.0	203	7.6	13.0	743	9.8	95						
28...	1508	19.0	203	7.5	13.0	743	9.8	95						
28...	1509	4.00	204	7.5	13.0	743	9.8	95						
SEP														
01...	1330	8.00	221	7.7	8.5	--	11.0	--						
01...	1331	24.0	219	7.7	8.5	--	11.0	--						
01...	1332	40.0	218	7.7	8.5	--	11.0	--						
01...	1333	56.0	216	7.7	9.0	--	11.0	--						
01...	1334	72.0	215	7.7	9.0	--	11.0	--						
SEP														
01...	1330	8.00	221	7.7	8.5	--	11.0	--						
01...	1331	24.0	219	7.7	8.5	--	11.0	--						
Date	Time	Medium code	Sample type	Stream width, feet (000004)	Gage height, feet (00065)	Instan- taneous dis- charge, cfs (00061)	Sam- pling method, code (82398)	Sampler type, code (84164)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Turbid- ity, wat unf lab, Hach 2100AN NTU (99872)	
MAY														
26...	1810	9	9	146	15.55	680	10	3044	83	7.2	10.5	4.5	3.3	
JUN														
23...	1410	H	9	--	14.88	265	70	--	--	--	--	--	--	
JUL														
28...	1440	9	9	74.0	14.50	89	20	3044	203	7.5	18.1	13.0	<2.0	
SEP														
01...	1310	9	9	97.0	14.62	109	10	3044	220	7.8	13.5	8.8	<2.0	
Date	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Hard- ness, water, mg/L as CaCO3 (00900)	Calcium water, mg/L fltrd, (00915)	Magnes- ium, water, mg/L fltrd, (00925)	Sodium, water, mg/L fltrd, (00930)	Potas- sium, water, mg/L fltrd, (00935)	Bicar- bonate, wat flt incrm. titr., field, mg/L (00453)	Carbon- ate, wat flt incrm. titr., field, mg/L (00452)	Alka- linity, wat flt inc tit mg/L as CaCO3 (39086)	Alka- linity, wat flt fxd end mg/L as CaCO3 (39036)	
MAY														
26...	741	11.8	94	E4	38	12.3	1.88	1.03	.38	31	.0	25	26	
JUN														
23...	--	--	--	--	--	--	--	--	--	--	--	--	--	
JUL														
28...	743	9.8	95	40	100	33.1	5.14	2.29	.71	95	.0	77	78	
SEP														
01...	744	11.0	97	E8	120	37.3	5.68	2.20	.62	101	.0	83	83	

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	5.0	0.5	2.0
28	---	---	---	---	---	---	---	---	---	6.5	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	7.0	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	9.0	---	---	13.5	9.5	11.5	13.5	11.5	12.5	---	8.0	---
2	7.5	---	---	12.5	9.0	10.5	12.5	11.0	12.0	---	---	---
3	9.5	---	---	16.0	9.0	12.0	13.0	11.0	12.0	---	---	---
4	9.0	---	---	14.0	10.0	11.5	12.5	11.0	11.5	---	---	---
5	10.5	---	---	16.0	9.0	12.5	13.5	10.0	12.0	---	---	---
6	11.5	---	---	15.0	10.0	12.5	13.5	9.0	11.5	---	---	---
7	13.0	---	---	12.5	9.5	11.0	12.0	11.0	11.5	---	---	---
8	9.5	---	---	13.0	9.5	10.5	12.5	11.0	11.5	---	---	---
9	10.5	---	---	16.0	9.0	12.0	11.5	10.0	10.5	---	---	---
10	13.5	5.0	8.5	16.0	9.5	12.5	13.5	9.5	11.0	---	---	---
11	13.5	---	---	14.5	9.5	12.0	13.0	10.0	11.5	---	---	---
12	14.0	6.5	10.5	16.0	9.5	12.5	12.0	11.0	11.5	---	---	---
13	14.5	6.5	10.0	14.5	11.5	13.0	12.5	10.5	11.5	---	---	---
14	14.0	7.0	10.5	16.0	10.5	12.5	12.0	11.0	11.5	---	---	---
15	15.0	7.5	11.0	16.0	10.5	13.0	13.5	10.5	12.0	---	---	---
16	12.5	7.5	9.5	16.5	11.5	13.5	13.0	9.5	11.5	---	---	---
17	9.0	7.0	8.0	14.5	12.0	13.5	14.0	10.0	11.5	---	---	---
18	11.5	6.5	9.0	16.0	11.5	13.5	16.0	9.0	12.0	---	---	---
19	9.5	8.0	9.0	17.0	10.0	13.5	15.5	11.0	12.5	---	---	---
20	11.5	7.0	9.0	16.0	11.0	13.0	16.5	10.0	13.0	---	---	---
21	12.0	8.0	9.5	17.5	10.5	14.0	14.5	10.5	12.5	---	---	---
22	10.0	8.0	9.0	18.5	11.0	14.5	14.5	11.0	12.5	---	---	---
23	9.5	8.0	8.5	17.0	11.5	14.0	14.0	9.5	11.5	---	---	---
24	9.5	6.5	8.0	18.5	12.5	15.0	14.5	9.0	11.5	---	---	---
25	9.0	6.5	8.0	17.0	12.0	14.5	14.0	9.5	11.5	---	---	---
26	11.5	6.0	8.0	15.5	12.0	13.5	13.0	8.0	10.5	---	---	---
27	14.5	6.0	10.0	14.0	12.0	13.0	12.5	7.0	10.0	---	---	---
28	16.0	8.0	12.0	14.0	11.5	13.0	12.5	6.5	9.5	---	---	---
29	16.0	9.0	12.5	16.0	11.5	13.5	11.0	9.0	10.0	---	---	---
30	15.0	10.5	12.5	14.5	12.0	13.0	10.5	9.0	9.5	---	---	---
31	---	---	---	14.5	11.5	13.0	11.5	8.5	10.0	---	---	---
MONTH	16.0	---	---	18.5	9.0	12.8	16.5	6.5	11.4	---	---	---