

NORTHWEST ALASKA

15625850 STEWART RIVER 0.1 MILE BELOW BOULDER 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.-- Water temperature sensor installed May 27, 2004. 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 27, July 28, and September 1. No variation was found within the cross section. A 0.5°C variation was found between mean stream temperature and sensor temperature on May 27. Beaver dam construction isolated the sensor from the main channel June 7 to September 1, 2004. Recorded stream temperatures at the sensor are not representative of mean stream temperatures during periods affected by the beaver dam and were not reported.

EXTREMES FOR CURRENT YEAR .--

WATER TEMPERATURE: Maximum recorded, 10.0°C, June 6; minimum recorded, 0.5°C, May 28.

EXTREMES OUTSIDE PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum recorded, 10.5°C, June 21.

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

Date	Time	Location in X-sect. looking downstrm ft from 1 bank (00009)	Specif. conductance, wat unf 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temperature, water, deg C (00010)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	Turbidity, wat unfltrd lab, Hach 2100AN NTU (99872)
MAY									
27...	1334	7.0	89	7.5	1.5	735	12.7	94	
27...	1335	22.0	89	7.5	1.5	735	12.6	93	
27...	1336	39.0	89	7.4	1.5	735	12.6	93	
27...	1337	54.0	89	7.4	1.5	735	12.5	92	
27...	1338	69.0	88	7.4	1.5	735	12.5	92	
27...	1339	84.0	88	7.4	1.5	735	12.5	92	
27...	1340	99.0	100	7.4	1.5	735	12.5	92	
JUL									
28...	1304	3.0	216	7.4	11.5	743	10.4	98	
28...	1305	5.0	216	7.4	11.5	743	10.3	97	
28...	1306	7.0	216	7.4	11.5	743	10.3	97	
28...	1307	9.00	217	7.5	11.5	743	10.3	97	
28...	1308	11.0	221	7.4	11.5	743	10.2	96	
SEP									
01...	1137	2.0	224	7.9	7.5	744	11.9	102	
01...	1139	10.0	224	7.9	7.5	744	11.9	102	
01...	1140	18.0	223	7.9	7.5	744	11.8	101	
01...	1141	26.0	223	7.9	7.5	744	11.8	101	
01...	1142	34.0	223	7.9	7.5	744	11.8	101	

Date	Time	Medium code	Sample type	Stream width, feet (00004)	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Sampling method, code (82398)	Sampler type, code (84164)	Specif. conductance, wat unf 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Turbidity, wat unfltrd lab, Hach 2100AN NTU (99872)
MAY													
27...	1430	9	9	104	38.06	218	10	3044	90	7.6	9.8	1.5	<2.0
JUN													
23...	1520	H	9	--	37.66	98	--	--	--	--	8.9	--	--
JUL													
28...	1240	9	7	12.0	37.83	34	10	3044	216	7.4	15.8	11.5	<2.0
SEP													
01...	1120	9	9	40.0	37.62	55	10	3044	223	7.9	8.2	7.5	<2.0

Date	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Hardness, water, mg/L as CaCO3 (00900)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	Potassium, water, fltrd, mg/L (00935)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Carbonate, wat flt incrm. titr., field, mg/L (00452)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Alkalinity, wat flt fxd end field, mg/L as CaCO3 (39036)
MAY													
27...	735	12.5	92	E1	44	14.5	1.92	1.08	.49	35	.0	28	30
JUN													
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
28...	743	10.3	97	64	110	36.2	5.24	2.21	.95	97	.0	80	82
SEP													
01...	744	11.8	101	E5	110	34.1	5.48	2.02	.84	103	.0	84	85

