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 September2004 (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.

Togo

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 unf uS/cm 25 degC (00095)		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)
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)	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)	ity, wat unf lab, Hach 2100AN NTU (99872)
MAY													
27 JUN	1430	9	9	104	38.06	218	10	3044	90	7.6	9.8	1.5	<2.0
23	1520	Н	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	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, fltrd, mg/L (00915)	Magnes- ium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	Potas- sium, water, fltrd, mg/L (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 field, mg/L as CaCO3 (39086)	Alka- linity, wat flt fxd end field, mg/L as CaCO3 (39036)
MAY 27	metric pres- sure, mm Hg (00025)	solved oxygen, mg/L	solved oxygen, percent of sat- uration	m-TEC MF, water, col/ 100 mL	ness, water, mg/L as CaCO3	water, fltrd, mg/L	ium, water, fltrd, mg/L	water, fltrd, mg/L	sium, water, fltrd, mg/L	bonate, wat flt incrm. titr., field, mg/L	ate, wat flt incrm. titr., field, mg/L	linity, wat flt inc tit field, mg/L as CaCO3	linity, wat flt fxd end field, mg/L as CaCO3
MAY 27 JUN 23	metric pres- sure, mm Hg (00025) 735	solved oxygen, mg/L (00300)	solved oxygen, percent of sat- uration (00301)	m-TEC MF, water, col/ 100 mL (31633)	ness, water, mg/L as CaCO3 (00900)	water, fltrd, mg/L (00915)	ium, water, fltrd, mg/L (00925)	water, fltrd, mg/L (00930)	sium, water, fltrd, mg/L (00935)	<pre>bonate, wat flt incrm. titr., field, mg/L (00453)</pre>	ate, wat flt incrm. titr., field, mg/L (00452)	<pre>linity, wat flt inc tit field, mg/L as CaCO3 (39086)</pre>	<pre>linity, wat flt fxd end field, mg/L as CaCO3 (39036)</pre>
MAY 27 JUN	metric pres- sure, mm Hg (00025) 735	solved oxygen, mg/L (00300) 12.5	solved oxygen, percent of sat- uration (00301) 92	m-TEC MF, water, col/ 100 mL (31633) E1	ness, water, mg/L as CaCO3 (00900) 44	<pre>water, fltrd, mg/L (00915) 14.5</pre>	ium, water, fltrd, mg/L (00925) 1.92	<pre>water, fltrd, mg/L (00930) 1.08</pre>	sium, water, fltrd, mg/L (00935) .49	bonate, wat flt incrm. titr., field, mg/L (00453) 35	ate, wat flt incrm. titr., field, mg/L (00452) .0	linity, wat flt inc tit field, mg/L as CaCO3 (39086) 28	linity, wat flt fxd end field, mg/L as CaCO3 (39036) 30

Turbid-

SOUTH-CENTRAL ALASKA

15625850 STEWART RIVER 0.1 MILE BELOW BOULDER CREEK MOUTH NEAR NOME-Continued

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

Date	Sulfate water, fltrd, mg/L (00945)	Chlor- ide, water, fltrd, mg/L (00940)	Fluor- ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Residue on evap. at 180degC wat flt mg/L (70300)	water, fltrd, sum of	Alum- inum, water, fltrd, ug/L (01106)	Anti- mony, water, fltrd, ug/L (01095)	Arsenic water, fltrd, ug/L (01000)	Barium, water, fltrd, ug/L (01005)	Beryll- ium, water, fltrd, ug/L (01010)	Cadmium water, fltrd, ug/L (01025)	Chrom- ium, water, fltrd, ug/L (01030)
MAY 27 JUN 23 JUL 28 SEP 01	8.0 29.1 27.8	1.46 1.51 1.53	<.2 <.2 <.2	2.86 7.49 6.93	57 149 136	48 130 129	7 2 2	1.09 1.20 1.32	2.0 3.1 2.9	5 14 12	<.06 <.06 <.06	<.04 <.04 <.04	<.8 <.8 <.8

					Ma		Ma lask				TT		pended
					Mangan-		Molyb-				Uranium		sedi-
	Cobalt	Copper,	Iron,	Lead,	ese,	Mercury	denum,	Nickel,	Silver,	Zinc,	natural	Cyanide	ment
	water,	concen-											
Date	fltrd,	tration											
Date	/	,	/										
	ug/L	mg/L	mg/L										
	(01035)	(01040)	(01046)	(01049)	(01056)	(71890)	(01060)	(01065)	(01075)	(01090)	(22703)	(00723)	(80154)
MAY													
27	.077	.5	60	<.08	9.2	<.02	<.4	.47	<.2	1.2	.09	<.01	3
JUN													
23													
JUL													
28	.111	.5	<6	<.08	1.5	<.02	E.3	.70	<.2	E.4	.38	<.01	5
SEP													
01	.114	.5	E5	<.08	2.3	<.02	E.2	1.17	<.2	.9	.43	<.01	.4

Sus-

Date	Sus- pended sedi- ment dis- charge, tons/d (80155)		<62.5um wet svd fld,tot percent	mony, bed sed <62.5um wet svd fld,tot	bed sed <62.5um wet svd field,	bed sed <62.5um wet svd field,	bed sed <62.5um wet svd	bed sed <177um wet svd field,	bed sed <62.5um wet svd field,	ium, bed sed <62.5um wet svd	bed sed	Calcium bed sed <62.5um wet svd field, total, percent (34830)	bed sed
MAY 27 JUN 23 JUL 28 SEP 01	1.8 .45	74 	 8.1 	 22 	 300 	 1100 	 3.2 	 <1 	 1.6 	 120 	 49 	 1.0 	 26
01	.06												

Date	Cerium, bed sed <62.5um wet svd field, total, ug/g (34835)	Europ- ium, bed sed <62.5um wet svd fld,tot ug/g (34855)	Gold, bed sed <62.5um wet svd field, total, ug/g (34870)	Gallium bed sed <62.5um wet svd field, total, ug/g (34860)	bed sed <62.5um	bed sed <62.5um	Lantha- num, bed sed <62.5um wet svd fld,tot ug/g (34885)	bed sed <62.5um	bed sed <62.5um wet svd field,	<62.5um	ese, bed sed <62.5um wet svd	Mercury bed sed <62.5um wet svd field, total, ug/g (34910)	Molyb- denum, bed sed <62.5um wet svd fld,tot ug/g (34915)
MAY 27 JUN 23 JUL 28	 93 	2	 <1 	 20 	 1 	 6.0 	 49 	 25 	 46 	 1.7 	 1800 	 .04	 3.0
SEP 01													

	Neodym- ium, bed sed	Nickel, bed sed <62.5um	<62.5um	phorus, bed sed		ium, bed sed		bed sed <62.5um			Tant- alum, bed sed	Thorium bed sed <62.5um	Tin, bed sed <62.5um
	<62.5um	wet svd field,	wet svd field,		<62.5um		wet svd	wet svd field,			<62.5um	wet svd	field,
Date	wet svd fld,tot	total,	total,	fld,tot		fld,tot		total,	wet svd fld,tot	field, total,		field, total,	total,
	ug/g (34920)	ug/g (34925)	ug/g (34930)	percent (34935)	ug/g (34945)	ug/g (34950)	ug/g (34955)	percent (34960)	ug/g (34965)	percent (34970)	ug/g (34975)	ug/g (34980)	ug/g (34985)
	(,	(,	(,	(,	(0 - 0 - 0)	(0 ,	(0 0 -)	(,	(,	(,	(,	(,	(,
MAY													
27													
JUN 23	4.0	62	10	.120	22	1 0	-	.730	120	.07	<1	17	5
23 JUL	48	62	10	.120	22	1.0	.5	.730	120	.07	<1	17	Э
28													
SEP													
01													

NORTHWEST ALASKA

15625850 STEWART RIVER 0.1 MILE BELOW BOULDER CREEK MOUTH NEAR NOME-Continued

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

Date	Titan- ium, bed sed <62.5um wsv nat rec, percent (49274)	Uranium bed sed <62.5um wet svd field, total, ug/g (35000)	Vanad- ium, bed sed <62.5um wet svd fld,tot ug/g (35005)	Yttrium bed sed <62.5um wet svd field, total, ug/g (35010)	Ytterb- ium, bed sed <62.5um wet svd fld,tot ug/g (35015)	Zinc, bed sed <62.5um wet svd field, total, ug/g (35020)	Organic carbon, bed sed <62.5um wsv nat field percent (49266)	Inorg. carbon, bed sed <62.5um wsv nat field percent (49269)	Total carbon, sedimnt <62.5um wsv nat field percent (49267)	Total carbon, bed sed <2 mm, wsv nat field g/kg (49272)	Inorg. carbon, bed sed <2 mm, wsv nat field g/kg (49270)	Organic carbon, bed sed <2 mm, wsv nat field g/kg (49271)
MAY 27 JUN 23 JUL 28 SEP	 .380 	 6.0 	 170 	 30 	 3 	 200 	 2.9 	 .05 	 2.9 	 6.6 	 <.2 	 6.6
01												

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	1	IARCH		AF	RIL			MAY			JUNE	
1										6.5	1.0	3.5
2										6.0	1.5	3.5
3										7.5	2.0	4.0
4										6.5	2.0	4.0
5										9.0	2.5	5.0
6										10.0	3.0	6.0
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27							4.0					
28							5.5	0.5	2.5			
29							4.0	1.5	2.5			
30							5.5	1.0	3.0			
31							4.0	1.5	2.5			
MONTH												