

SOUTHEAST ALASKA

15101490 GREENS CREEK AT GREENS CREEK MINE NEAR JUNEAU

LOCATION.--Lat 58°05'00", long 134°37'54", in NW¹/₄ SE¹/₄ sec. 4, T. 44 S., R. 66 E. (Juneau A-2 quad), Hydrologic Unit 19010204, on Admiralty Island, in Admiralty Island National Monument, Tongass National Forest, on right bank, 100 ft upstream from mine portal, 0.3 mi downstream from Big Sore Creek, 7.0 mi upstream from mouth at Hawk Inlet, and 19 mi southwest of Juneau.

DRAINAGE AREA.--8.62 mi².

PERIOD OF RECORD.--August 1989 to current year.

REVISED RECORD.--WRD AK-99-1, 1990-1994(M), 1996-1998(M).

GAGE.--Water-stage recorder. Datum of gage is 890.16 ft above sea level (levels by Greens Creek Mining Company). Prior to February 16, 1999, recording gage at site 30 ft upstream at datum 9.84 ft higher.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Greens Creek Mining Company pumps water from gage pool for use in mill. Diversion flow is recorded on totalizing meters in gage house. Pump records are available from Greens Creek Mining Company.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e43	e34	e15	e11	e9.0	12	9.6	98	90	38	25	10
2	e38	e33	e21	e10	e9.5	11	20	100	88	37	24	13
3	e34	e30	e15	e9.8	e9.5	11	50	101	85	42	27	19
4	e39	e27	e14	e9.6	e10	10	28	98	87	36	25	20
5	e37	e25	14	e9.4	e12	10	22	89	97	41	23	19
6	e39	e23	13	e9.6	15	9.7	21	84	96	57	22	26
7	e43	e22	13	e9.0	12	11	25	86	106	40	20	25
8	e38	e20	12	e9.5	17	34	27	87	98	35	19	20
9	e34	e23	e12	13	63	19	26	86	90	32	18	17
10	e33	e22	e11	21	46	15	27	87	88	29	18	16
11	e31	e28	12	18	27	15	27	90	84	28	21	15
12	e29	e68	11	15	31	13	29	94	89	26	18	23
13	e29	e59	11	29	26	12	28	98	88	25	16	59
14	e25	e41	11	113	23	11	28	101	88	33	16	30
15	e23	e38	11	43	19	10	25	98	80	27	15	25
16	e22	e36	11	22	16	10	23	94	78	25	14	22
17	e20	e34	12	21	15	9.3	22	91	84	25	14	20
18	e29	e32	15	32	14	8.9	22	96	92	23	13	18
19	e40	e30	31	26	15	10	20	102	96	21	14	17
20	e43	e29	22	33	18	8.8	21	105	94	21	16	42
21	e38	e27	21	45	35	9.6	22	108	89	25	14	101
22	e36	e26	79	54	39	7.8	35	102	86	22	12	86
23	e39	e24	41	32	24	7.5	29	97	86	20	11	112
24	e43	e24	27	e24	20	7.9	25	107	85	26	11	107
25	e92	e22	24	e18	17	19	48	114	82	30	10	86
26	e124	e19	19	e14	16	17	56	112	75	23	11	69
27	e82	e18	e15	e15	14	14	36	99	67	24	15	106
28	e54	e17	e12	e13	14	15	33	90	56	38	15	86
29	e44	e15	e13	e11	13	14	36	91	45	35	14	68
30	e38	e14	e13	e9.7	---	12	67	92	41	31	13	59
31	e36	---	e12	e8.6	---	10	---	92	---	27	11	---
TOTAL	1295	860	563	708.2	599.0	384.5	887.6	2989	2510	942	515	1336
MEAN	41.8	28.7	18.2	22.8	20.7	12.4	29.6	96.4	83.7	30.4	16.6	44.5
MAX	124	68	79	113	63	34	67	114	106	57	27	112
MIN	20	14	11	8.6	9.0	7.5	9.6	84	41	20	10	10
AC-FT	2570	1710	1120	1400	1190	763	1760	5930	4980	1870	1020	2650
CFSM	4.85	3.33	2.11	2.65	2.40	1.44	3.43	11.2	9.71	3.53	1.93	5.17
IN.	5.59	3.71	2.43	3.06	2.59	1.66	3.83	12.90	10.83	4.07	2.22	5.77

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2004, BY WATER YEAR (WY)#

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
MEAN	60.3	30.1	25.4	16.1	13.6	11.3	28.4	78.6	86.0	52.5	39.0	61.0				
MAX	97.9	49.5	65.7	26.5	36.9	27.2	49.6	107	147	90.5	69.7	95.0				
(WY)	1999	1994	1990	2003	1992	1992	1994	1992	1992	2000	1991	1991				
MIN	34.7	14.6	8.27	5.50	3.43	2.82	3.56	51.7	50.7	20.8	16.6	33.3				
(WY)	1994	1991	1997	1997	1999	2002	2002	2003	2003	2003	2004	1995				

See Period of Record, partial years used in monthly statistics
e Estimated

SOUTHEAST ALASKA

15101490 GREENS CREEK AT GREENS CREEK MINE NEAR JUNEAU—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1989 - 2004#	
ANNUAL TOTAL	11965.9		13589.3			
ANNUAL MEAN	32.8		37.1		42.1	
HIGHEST ANNUAL MEAN					60.1	
LOWEST ANNUAL MEAN					31.8	
HIGHEST DAILY MEAN					465	
LOWEST DAILY MEAN	164	Sep 14	124	Oct 26	Oct 20 1998	
ANNUAL SEVEN-DAY MINIMUM	4.6	Mar 25	7.5	Mar 23	a1.2 Apr 3 2002	
MAXIMUM PEAK FLOW	5.0	Mar 21	8.6	Mar 18	1.2 Apr 8 2002	
MAXIMUM PEAK STAGE			b164	Sep 23	c710 Oct 20 1998	
INSTANTANEOUS LOW FLOW			2.65	Sep 23	d14.79 Oct 20 1998	
ANNUAL RUNOFF (AC-FT)	23730		5.7		Mar 23	f0.98 Mar 20 2002
ANNUAL RUNOFF (CFSM)	3.80		26950		30470	
ANNUAL RUNOFF (INCHES)	51.64		4.31		4.88	
10 PERCENT EXCEEDS	76		58.65		66.30	
50 PERCENT EXCEEDS	23		91		30	
90 PERCENT EXCEEDS	8.8		25		11	
			11		6.6	

- # See Period of Record, partial years used in monthly statistics
- a Apr. 3-4, 8, and 11-14
- b May have been higher during period of estimated discharge.
- c From rating curve extended above 140 ft³/s on basis of slope area measurement of peak flow
- d Same site, different datum
- f Mar. 20, and Apr. 7-11