

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 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52	45	51	e26	18	53	11	72	70	50	44	54
2	46	47	117	e24	14	41	10	67	70	62	36	48
3	38	95	94	e22	12	29	10	66	61	69	37	40
4	55	64	56	e21	e11	34	11	65	70	74	42	33
5	95	39	39	e19	e10	25	11	66	67	60	54	34
6	91	31	32	18	e9.0	20	15	70	62	51	43	66
7	81	27	e28	18	e8.0	18	14	78	63	46	35	80
8	84	24	e25	16	e10	32	13	85	64	37	31	62
9	71	22	24	15	11	33	13	91	64	33	27	47
10	66	20	22	15	10	76	14	97	64	31	24	44
11	51	19	25	e14	9.7	53	14	101	59	30	22	41
12	55	21	29	e13	8.8	37	14	102	51	31	20	45
13	68	33	24	e12	e7.6	33	14	118	51	32	19	51
14	49	85	28	e12	e7.0	29	14	150	50	40	18	40
15	45	83	25	e11	7.6	25	13	118	50	47	18	35
16	36	55	109	e11	7.7	21	14	95	47	35	17	31
17	31	37	85	e11	8.2	19	16	89	52	52	16	47
18	26	31	117	12	7.9	17	17	85	58	53	24	98
19	24	32	85	11	7.2	e15	45	81	60	41	31	125
20	24	89	58	10	6.8	e13	46	82	52	34	28	98
21	22	89	42	13	6.5	e13	85	86	61	38	25	88
22	22	53	43	25	6.4	e13	67	82	49	33	31	75
23	20	40	107	19	7.8	12	67	79	46	29	26	99
24	20	34	116	15	8.1	12	97	78	44	27	23	110
25	20	31	71	13	8.5	11	108	73	39	28	62	93
26	18	29	52	14	10	12	110	82	37	33	70	78
27	27	28	42	13	16	13	111	86	42	62	44	78
28	35	30	36	12	37	12	110	72	52	63	33	109
29	73	29	e33	12	---	11	100	74	53	46	37	131
30	35	32	e30	22	---	11	84	74	41	41	52	101
31	27	---	e28	23	---	13	---	68	---	51	55	---
TOTAL	1407	1294	1673	492	291.8	756	1268	2632	1649	1359	1044	2081
MEAN	45.4	43.1	54.0	15.9	10.4	24.4	42.3	84.9	55.0	43.8	33.7	69.4
MAX	95	95	117	26	37	76	111	150	70	74	70	131
MIN	18	19	22	10	6.4	11	10	65	37	27	16	31
AC-FT	2790	2570	3320	976	579	1500	2520	5220	3270	2700	2070	4130
CFSM	5.27	5.00	6.26	1.84	1.21	2.83	4.90	9.85	6.38	5.09	3.91	8.05
IN.	6.07	5.58	7.22	2.12	1.26	3.26	5.47	11.36	7.12	5.86	4.51	8.98

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2005, BY WATER YEAR (WY)#

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
MEAN	59.4	30.9	27.2	16.1	13.4	12.1	29.3	79.0	84.1	51.9	38.7	61.5					
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					

SUMMARY STATISTICS FOR 2004 CALENDAR YEAR FOR 2005 WATER YEAR WATER YEARS 1989 - 2005#

ANNUAL TOTAL	15245.3	15946.8															
ANNUAL MEAN	41.7	43.7								42.2							
HIGHEST ANNUAL MEAN										60.1							1992
LOWEST ANNUAL MEAN										31.8							1998
HIGHEST DAILY MEAN				117	Dec 2		150	May 14		465	Oct 20	1998					
LOWEST DAILY MEAN				7.5	Mar 23		6.4	Feb 22		a1.2	Apr 3	2002					
ANNUAL SEVEN-DAY MINIMUM				8.6	Mar 18		7.2	Feb 16		1.2	Apr 8	2002					
MAXIMUM PEAK FLOW							220	Nov 3		b710	Oct 20	1998					
MAXIMUM PEAK STAGE							2.90	Nov 3		c14.79	Oct 20	1998					
INSTANTANEOUS LOW FLOW							d6.3	Feb 21		e0.98	Mar 20	2002					
ANNUAL RUNOFF (AC-FT)	30240						31630			30550							
ANNUAL RUNOFF (CFSM)	4.83						5.07			4.89							
ANNUAL RUNOFF (INCHES)	65.79						68.82			66.46							
10 PERCENT EXCEEDS	94						87			91							
50 PERCENT EXCEEDS	28						36			31							
90 PERCENT EXCEEDS	11						12			6.9							

See Period of Record; partial year was used in monthly statistics.

a Apr. 3-4, 8, and 11-14

b From rating curve extended above 140 ft³/s on basis of slope area measurement of peak flow.

c Same site, different datum

d Feb. 21-23

e Mar. 20, and Apr. 7-11