

NORTHWEST ALASKA

1574699020 IKALUKKROK CREEK 0.6 MILE BELOW RED DOG CREEK NEAR KIVALINA

LOCATION.--Lat 68°05'09", long 162°58'07", in Ne¹/₄ sec. 15, T. 31 N., R. 19 W. (De Long Mountains A-2 quad), Northwest Arctic Borough, Hydrologic Unit 19050404, on left bank 0.6 miles downstream from Red Dog Creek, 3 miles northwest of Red Dog Mine, 36 miles north of Noatak, and 48 miles northeast of Kivalina.

DRAINAGE AREA.--86.7 mi².

PERIOD OF RECORD.--June 2005 to current year. Miscellaneous measurements were collected from June 2001 to September 2004.

GAGE.--Water-stage recorder. Elevation of gage is 660 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Meteorburst telemetry at station. Flow from 2.8 square miles of the drainage basin is regulated by a tailings dam at the Red Dog Mine site. Up to 25 ft³/s of the flow at the gage may be discharge from Red Dog Mine during the summer period.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, to be determined, August 9, 2005, gage height, 31.93 ft from flood marks; minimum not determined, occurs during the winter.

EXTREMES FOR CURRENT PERIOD.--Maximum discharge, to be determined, August 9, gage height, 31.93 ft from flood marks; minimum not determined, occurs during the winter.

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 | --- | --- | --- | --- | --- | --- | --- | --- | 1110 | 191 | 60 | 188 |
| 2 | --- | --- | --- | --- | --- | --- | --- | --- | 805 | 163 | 60 | 250 |
| 3 | --- | --- | --- | --- | --- | --- | --- | --- | 668 | 145 | 60 | 243 |
| 4 | --- | --- | --- | --- | --- | --- | --- | --- | 523 | 127 | 60 | 230 |
| 5 | --- | --- | --- | --- | --- | --- | --- | --- | 431 | 116 | 96 | 213 |
| 6 | --- | --- | --- | --- | --- | --- | --- | --- | 379 | 115 | 302 | 195 |
| 7 | --- | --- | --- | --- | --- | --- | --- | --- | 378 | 104 | 946 | 177 |
| 8 | --- | --- | --- | --- | --- | --- | --- | --- | 457 | 106 | 1530 | 172 |
| 9 | --- | --- | --- | --- | --- | --- | --- | --- | 544 | 101 | 1680 | 165 |
| 10 | --- | --- | --- | --- | --- | --- | --- | --- | 535 | 99 | 741 | 158 |
| 11 | --- | --- | --- | --- | --- | --- | --- | --- | 614 | 84 | 1050 | 149 |
| 12 | --- | --- | --- | --- | --- | --- | --- | --- | 593 | 75 | 1020 | 170 |
| 13 | --- | --- | --- | --- | --- | --- | --- | --- | 587 | 76 | 798 | 170 |
| 14 | --- | --- | --- | --- | --- | --- | --- | --- | 568 | 128 | 583 | 190 |
| 15 | --- | --- | --- | --- | --- | --- | --- | --- | 570 | 192 | 451 | 243 |
| 16 | --- | --- | --- | --- | --- | --- | --- | --- | 538 | 160 | 372 | 496 |
| 17 | --- | --- | --- | --- | --- | --- | --- | --- | 468 | 147 | 319 | 406 |
| 18 | --- | --- | --- | --- | --- | --- | --- | --- | 523 | 128 | 282 | 339 |
| 19 | --- | --- | --- | --- | --- | --- | --- | --- | 448 | 114 | 258 | 296 |
| 20 | --- | --- | --- | --- | --- | --- | --- | e300 | 332 | 104 | 238 | 264 |
| 21 | --- | --- | --- | --- | --- | --- | --- | e400 | 300 | 95 | 218 | 249 |
| 22 | --- | --- | --- | --- | --- | --- | --- | e500 | 280 | 88 | 210 | 346 |
| 23 | --- | --- | --- | --- | --- | --- | --- | e700 | 269 | 81 | 223 | 862 |
| 24 | --- | --- | --- | --- | --- | --- | --- | e900 | 256 | 77 | 265 | 693 |
| 25 | --- | --- | --- | --- | --- | --- | --- | e1200 | 245 | 75 | 293 | 527 |
| 26 | --- | --- | --- | --- | --- | --- | --- | e1700 | 242 | 72 | 267 | 441 |
| 27 | --- | --- | --- | --- | --- | --- | --- | e1700 | 228 | 70 | 248 | 390 |
| 28 | --- | --- | --- | --- | --- | --- | --- | e1500 | 233 | 73 | 240 | 343 |
| 29 | --- | --- | --- | --- | --- | --- | --- | e1350 | 236 | 66 | 229 | 295 |
| 30 | --- | --- | --- | --- | --- | --- | --- | 1360 | 221 | 66 | 211 | 249 |
| 31 | --- | --- | --- | --- | --- | --- | --- | 1200 | --- | 62 | 195 | --- |
| TOTAL | --- | --- | --- | --- | --- | --- | --- | --- | 13581 | 3300 | 13505 | 9109 |
| MEAN | --- | --- | --- | --- | --- | --- | --- | --- | 453 | 106 | 436 | 304 |
| MAX | --- | --- | --- | --- | --- | --- | --- | --- | 1110 | 192 | 1680 | 862 |
| MIN | --- | --- | --- | --- | --- | --- | --- | --- | 221 | 62 | 60 | 149 |
| MED | --- | --- | --- | --- | --- | --- | --- | --- | 453 | 101 | 265 | 249 |
| AC-FT | --- | --- | --- | --- | --- | --- | --- | --- | 26940 | 6550 | 26790 | 18070 |

e Estimated