## 15015595 UNUK RIVER BELOW BLUE RIVER NEAR WRANGELL

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 2003 to current year.
PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: April 2003 to current year.
INSTRUMENTATION.--Digital water-temperature recorder with 15-minute recording interval.
 within $0.5^{\circ} \mathrm{C}$. Temperature at the sensor was compared with the stream average by cross section on March 31 and July 14 . No variation was found in the temperature cross sections. No variation was found between mean stream temperature and sensor temperature. Records good while probe was submerged.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, $11.0^{\circ} \mathrm{C}$, July 9, 23-24, 2004; minimum recorded, $0.5^{\circ} \mathrm{C}$ December 22 , January $14-15,2004 ; 0.0^{\circ} \mathrm{C}$ likely during period of missing record in winter.
EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, $11.0^{\circ} \mathrm{C}$, July 9, $23-24$; minimum recorded, $0.5^{\circ} \mathrm{C}$ December 22 , January $14-15$, $0.0^{\circ} \mathrm{C}$ likely during period of missing record in winter.

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

| Date | Time | $\begin{aligned} & \text { Loca- } \\ & \text { tion in } \\ & \text { X-sect. } \\ & \text { looking } \\ & \text { dwnstrm } \\ & \text { ft from } \\ & \text { l bank } \\ & (00009) \end{aligned}$ | Specif. <br> conduc- <br> tance, <br> wat unf <br> uS/cm <br> 25 degC <br> (00095) | pH, water, unfltrd field, std units $(00400)$ | ```Temper- ature, water, deg C (00010)``` | $\begin{aligned} & \text { Baro- } \\ & \text { metric } \\ & \text { pres- } \\ & \text { sure, } \\ & \text { mm Hg } \\ & (00025) \end{aligned}$ | $\begin{gathered} \text { Dis- } \\ \text { solved } \\ \text { oxygen, } \\ \text { mg/L } \\ (00300) \end{gathered}$ | Dissolved oxygen, percent of saturation (00301) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| MAR |  |  |  |  |  |  |  |  |
| 31. | 1800 | 38.0 | 150 | 7.7 | 4.0 | 763 | 12.9 | 98 |
| 31 | 1801 | 113 | 150 | 7.7 | 4.0 | 763 | 12.9 | 98 |
| 31 | 1802 | 188 | 150 | 7.7 | 4.0 | 763 | 12.9 | 98 |
| 31 | 1803 | 263 | 151 | 7.7 | 4.0 | 763 | 12.9 | 98 |
| JUL |  |  |  |  |  |  |  |  |
| 14. | 1817 | 25.0 | 72 | 7.9 | 9.0 | 755 | 11.3 | 99 |
| 14. | 1818 | 85.0 | 72 | 7.8 | 9.0 | 755 | 11.1 | 97 |
| 14. | 1819 | 145 | 71 | 7.7 | 9.0 | 755 | 11.1 | 97 |
| 14. | 1820 | 205 | 72 | 7.7 | 9.0 | 755 | 11.1 | 97 |
| 14. | 1821 | 270 | 72 | 7.7 | 9.0 | 755 | 11.1 | 97 |


| Date | Time | Medium code | Sample type | Gage height, feet (00065) | Instantaneous discharge, cfs (00061) | Sampling method, code (82398) | $\begin{gathered} \text { Stream } \\ \text { width, } \\ \text { feet } \\ (00004) \end{gathered}$ | Barometric pressure, mm Hg (00025) | $\begin{gathered} \text { Dis- } \\ \text { solved } \\ \text { oxygen, } \\ \text { mg/L } \\ (00300) \end{gathered}$ | Dissolved oxygen, percent of saturation (00301) | $\begin{gathered} \text { pH, } \\ \text { water, } \\ \text { unfltrd } \\ \text { field, } \\ \text { std } \\ \text { units } \\ (00400) \end{gathered}$ | ```Specif. conduc- tance, wat unf uS/cm 25 degC (00095)``` | ```Temper- ature, air, deg C (00020)``` |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| OCT ${ }^{\text {O }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 09. | 1600 | 9 | 9 | 23.76 | 5720 | 10 | 275 | 745 | 11.8 | 98 | 7.9 | 95 | -- |
| MAR |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 31 | 1730 | 9 | 9 | 21.64 | 1740 | 10 | 300 | 763 | 12.9 | 98 | 7.7 | 150 | 3.5 |
| JUL |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $14$ | 1800 | 9 | 9 | 25.65 | 11100 | 10 | 285 | 755 | 11.1 | 97 | 7.7 | 72 | 18.5 |
| SEP |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 23 | 1330 | 9 | 9 | 26.14 | 11500 | 10 | 255 | 755 | -- | -- | 7.8 | 74 | 8.5 |
|  |  |  |  | Calcium |  | Magnesium, |  |  | Alkalinity, | Bicarbonate, |  |  |  |
|  | Temper- | Hardness, | Calcium | water unfltrd | Magnesium, | water, unfltrd | Potassium, | Sodium, | wat flt inc tit | wat flt incrm. | Chloride, | $\begin{aligned} & \text { Fluor- } \\ & \text { ide, } \end{aligned}$ | Silica, |
|  | ature, | water, | water, | recover | water, | recover | water, | water, | field, | titr., | water, | water, | water, |
| Date | $\begin{aligned} & \text { water, } \\ & \text { deg C } \\ & (00010) \end{aligned}$ | $\begin{gathered} \mathrm{mg} / \mathrm{L} \text { as } \\ \mathrm{CaCO} \\ (00900) \end{gathered}$ | $\begin{gathered} \text { fltrd, } \\ \mathrm{mg} / \mathrm{L} \\ (00915) \end{gathered}$ | $\begin{gathered} \text {-able, } \\ \mathrm{mg} / \mathrm{L} \\ (00916) \end{gathered}$ | $\begin{gathered} \text { fltrd, } \\ \mathrm{mg} / \mathrm{L} \\ (00925) \end{gathered}$ | $\begin{gathered} \text {-able, } \\ \mathrm{mg} / \mathrm{L} \\ (00927) \end{gathered}$ | $\begin{gathered} \text { fltrd, } \\ \mathrm{mg} / \mathrm{L} \\ (00935) \end{gathered}$ | $\begin{gathered} \text { fltrd, } \\ \mathrm{mg} / \mathrm{L} \\ (00930) \end{gathered}$ | $\begin{gathered} \mathrm{mg} / \mathrm{L} \text { as } \\ \mathrm{CaCO} \\ (39086) \end{gathered}$ | $\begin{gathered} \text { field, } \\ \mathrm{mg} / \mathrm{L} \\ (00453) \end{gathered}$ | $\begin{gathered} \text { fltrd, } \\ \mathrm{mg} / \mathrm{L} \\ (00940) \end{gathered}$ | $\begin{gathered} \text { fltrd, } \\ \mathrm{mg} / \mathrm{L} \\ (00950) \end{gathered}$ | $\begin{gathered} \text { fltrd, } \\ \mathrm{mg} / \mathrm{L} \\ (00955) \end{gathered}$ |
| OCT |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 09. | 6.5 | 42 | 14.5 | -- | 1.33 | -- | . 78 | 1.47 | 30 | 36 | . 28 | $<.2$ | 3.98 |
| MAR |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 31 | 4.0 | 71 | 24.5 | 23.3 | 2.33 | 2.22 | 1.18 | 2.87 | 48 | 59 | . 78 | $<.2$ | 5.94 |
| JUL |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 14. | 9.0 | 32 | 11.4 | 13.4 | . 802 | 2.59 | . 72 | . 90 | 23 | 28 | E. 18 | $<.2$ | 2.60 |
| SEP |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 23. | 6.5 | 34 | 11.8 | -- | 1.01 | -- | . 79 | 1.01 | 26 | 32 | . 21 | $<.2$ | 3.37 |

15015595 UNUK RIVER BELOW BLUE RIVER NEAR WRANGELL—Continued

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

| Date | ```Sulfate water, fltrd, mg/L (00945)``` | Residue water, fltrd, sum of constituents mg/L (70301) | ```Residue on evap. at 180degC wat flt mg/L (70300)``` | $\begin{gathered} \text { Ammonia } \\ + \\ \text { org-N, } \\ \text { water, } \\ \text { fltrd, } \\ \text { mg/L } \\ \text { as N } \\ (00623) \end{gathered}$ | $\begin{gathered} \text { Ammonia } \\ + \\ \text { org-N, } \\ \text { water, } \\ \text { unfltrd } \\ \text { mg/L } \\ \text { as } \mathrm{N} \\ (00625) \end{gathered}$ | Ammonia water, fltrd, mg/L as N (00608) | ```Nitrite + nitrate water fltrd, mg/L as N (00631)``` | Nitrite water, fltrd, mg/L as N (00613) | ```Partic- ulate nitro- gen, susp, water, mg/L (49570)``` | $\begin{aligned} & \text { Ortho- } \\ & \text { phos- } \\ & \text { phate, } \\ & \text { water, } \\ & \text { fltrd, } \\ & \text { mg/L } \\ & \text { as P } \\ & (00671) \end{aligned}$ | Phosphorus, water, fltrd, mg/L (00666) | Phosphorus, water, unfltrd mg/L (00665) | Total carbon, suspnd sedimnt total, mg/L (00694) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| OCT 09 | 14.6 | 55 | 50 | $<.10$ | E. 06 | $<.010$ | . 051 | E. 001 | -- | $<.006$ | E. 003 | . 024 | - - |
| $\begin{gathered} \text { MAR } \\ 31 . . \end{gathered}$ | 22.8 | 90 | 106 | $<.10$ | $<.10$ | $<.010$ | . 157 | $<.002$ | $<.02$ | $<.006$ | E. 003 | $<.004$ | . 2 |
| JUL $14 \text {. . }$ | 9.9 | -- | 52 | $<.10$ | E. 05 | $<.010$ | . 018 | $<.002$ | . 02 | $<.006$ | $<.004$ | . 32 | . 3 |
| SEP $23 .$ | $10.2$ | 44 | 53 | $<.10$ | E. 07 | $<.010$ | . 059 | $<.002$ | -- | $<.006$ | E. 002 | . 140 | -- |
| Date | Organic carbon, water, fltrd, mg / L (00681) | Aluminum, water, fltrd, ug/L (01106) | Aluminum, water, unfltrd recover -able, ug/L (01105) | $\begin{gathered} \text { Anti- } \\ \text { mony, } \\ \text { water, } \\ \text { fltrd, } \\ \text { ug/L } \\ (01095) \end{gathered}$ | Antimony, water, unfltrd ug/L (01097) | Arsenic water, fltrd, ug/L (01000) | Barium, water, fltrd, ug/L (01005) | ```Barium, water, unfltrd recover -able, ug/L (01007)``` | $\begin{gathered} \text { Beryll- } \\ \text { ium, } \\ \text { water, } \\ \text { fltrd, } \\ \text { ug/L } \\ (01010) \end{gathered}$ | ```Beryll- ium, water, unfltrd recover -able, ug/L (01012)``` | $\begin{gathered} \text { Boron, } \\ \text { water, } \\ \text { fltrd, } \\ \text { ug/L } \\ (01020) \end{gathered}$ | ```Boron, water, unfltrd recover -able, ug/L (01022)``` | ```Cadmium water, fltrd, ug/L (01025)``` |
| OCT $09 .$ |  | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| $\begin{aligned} & \text { MAR } \\ & 31 . . \end{aligned}$ | $1.1$ | 18 | 61 | . 54 | . 5 | . 3 | 29 | 29 | <. 06 | <. 06 | E4 | E6 | . 04 |
| JUL 14.. | $.3$ | 48 | 3260 | . 31 | . 3 | E. 1 | 18 | 76 | <. 06 | . 09 | $<8$ | <8 | . 04 |
| $\begin{aligned} & \text { SEP } \\ & 23 \ldots \end{aligned}$ | $1.0$ | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Date | $\begin{gathered} \text { Cadmium } \\ \text { water, } \\ \text { unfltrd } \\ \text { ug/L } \\ (01027) \end{gathered}$ | $\begin{gathered} \text { Chrom- } \\ \text { ium, } \\ \text { water, } \\ \text { fltrd, } \\ \text { ug/L } \\ (01030) \end{gathered}$ | ```Chrom- ium, water, unfltrd recover -able, ug/L (01034)``` | ```Cobalt water, fltrd, ug/L (01035)``` | Cobalt water, unfltrd recover -able, ug/L (01037) | ```Copper, water, fltrd, ug/L (01040)``` | ```Copper, water, unfltrd recover -able, ug/L (01042)``` | $\begin{gathered} \text { Iron, } \\ \text { water, } \\ \text { fltrd, } \\ \text { ug/L } \\ (01046) \end{gathered}$ | ```Iron, water, unfltrd recover -able, ug/L (01045)``` | ```Lead, water, fltrd, ug/L (01049)``` | ```Lead, water, unfltrd recover -able, ug/L (01051)``` | Lithium water, fltrd, ug/L (01130) | ```Lithium water unfltrd recover -able, ug/L (01132)``` |
| $\begin{gathered} \text { OCT } \\ 09 . \end{gathered}$ | - - | -- | -- | -- | -- | -- | -- | 9 | -- | -- | -- | -- | -- |
| MAR $31 . \text {. }$ | E. 04 | $<.8$ | <. 8 | . 115 | . 130 | 2.2 | 2.7 | 41 | 170 | . 12 | . 09 | . 8 | 1.0 |
| JUL <br> 14.. | $.21$ | <. 8 | 4.3 | . 110 | 3.04 | 2.2 .7 | 26.0 | 13 | 5170 | $<.08$ | 3.58 | M | 2.6 |
| $\begin{aligned} & \text { SEP } \\ & 23 \ldots \end{aligned}$ | -- | -- | -- | -- | -- | -- | -- | 19 | -- | -- | -- | -- | -- |
| Date | $\begin{gathered} \text { Mangan- } \\ \text { ese, } \\ \text { water, } \\ \text { fltrd, } \\ \text { ug/L } \\ (01056) \end{gathered}$ | ```Mangan- ese, water, unfltrd recover -able, ug/L (01055)``` | ```Mercury water, fltrd, ug/L (71890)``` | ```Mercury water, unfltrd recover -able, ug/L (71900)``` | $\begin{gathered} \text { Molyb- } \\ \text { denum, } \\ \text { water, } \\ \text { fltrd, } \\ \text { ug/L } \\ (01060) \end{gathered}$ | Molybdenum, water, unfltrd recover -able, ug/L (01062) | $\begin{gathered} \text { Nickel, } \\ \text { water, } \\ \text { fltrd, } \\ \text { ug/L } \\ (01065) \end{gathered}$ | ```Nickel, water, unfltrd recover -able, ug/L (01067)``` | $\begin{gathered} \text { Selen- } \\ \text { ium, } \\ \text { water, } \\ \text { fltrd, } \\ \text { ug/L } \\ (01145) \end{gathered}$ | ```Selen- ium, water, unfltrd ug/L (01147)``` | $\begin{aligned} & \text { Silver, } \\ & \text { water, } \\ & \text { fltrd, } \\ & \text { ug/L } \\ & (01075) \end{aligned}$ | ```Silver, water, unfltrd recover -able, ug/L (01077)``` | $\begin{gathered} \text { Stront- } \\ \text { ium, } \\ \text { water, } \\ \text { fltrd, } \\ \text { ug/L } \\ (01080) \end{gathered}$ |
| $\begin{gathered} \text { OCT } \\ 09 \ldots \end{gathered}$ | 14.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| $\begin{aligned} & \text { MAR } \\ & 31 . . \end{aligned}$ | $13.7$ | 15 | $<.02$ | <. 02 | 1.8 | 1.8 | . 79 | . 48 | . 5 | . 5 | $<.2$ | <. 16 | 127 |
| JUL 14.. | $18.2$ | 153 | <. 02 | E. 01 | 1.1 | . 7 | . 47 | 4.93 | $<.4$ | E. 2 | <. 2 | <. 16 | 60 |
| $\begin{aligned} & \text { SEP } \\ & 23 \ldots \end{aligned}$ | . 12.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

15015595 UNUK RIVER BELOW BLUE RIVER NEAR WRANGELL—Continued


## 15015595 UNUK RIVER BELOW BLUE RIVER NEAR WRANGELL—Continued

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

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | OCTOBER |  |  | NOVEMBER |  |  | DECEMBER |  |  | JANUARY |  |
| 1 | 7.0 | 5.5 | 6.5 | 3.0 | 2.0 | 2.5 | -- | --- | --- | --- | --- | --- |
| 2 | 7.0 | 5.5 | 6.5 | 3.0 | 2.5 | 2.5 | --- | --- | --- | --- | --- | --- |
| 3 | 7.0 | 5.5 | 6.0 | 2.5 | 2.0 | 2.0 | --- | --- | --- | --- | --- | - |
| 4 | 7.0 | 5.5 | 6.0 | 2.0 | 1.5 | 1.5 | --- | --- | --- | --- | --- | --- |
| 5 | 6.5 | 5.5 | 6.0 | --- | --- | --- | --- | -- | --- | --- | -- | --- |
| 6 | 6.5 | 6.0 | 6.0 | --- | --- | --- | -- | --- | -- | -- | -- | --- |
| 7 | 6.5 | 5.5 | 6.0 | --- | --- | --- | --- | -- | -- | - | --- | -- |
| 8 | 6.5 | 5.5 | 6.0 | --- | --- | --- | --- | --- | --- | --- | - | - |
| 9 | 6.5 | 6.0 | 6.0 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 10 | 6.5 | 5.5 | 6.0 | --- | --- | - | --- | --- | --- | --- | --- | - |
| 11 | 6.0 | 5.0 | 5.5 | - | --- | -- | - | --- | - | - | - | - |
| 12 | 6.5 | 5.0 | 5.5 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13 | 6.0 | 5.0 | 5.5 | --- | --- | - | --- | --- | --- | --- | --- | --- |
| 14 | 6.5 | 5.5 | 6.0 | --- | - | - | --- | - | - | --- | - | --- |
| 15 | 5.5 | 4.5 | 5.0 | -- | --- | -- | --- | --- | --- | --- | --- | -- |
| 16 | 5.5 | 5.0 | 5.0 | --- | --- | --- | --- | --- | -- | -- | --- | --- |
| 17 | 6.0 | 5.5 | 5.5 | --- | --- | --- | -- | --- | -- | -- | --- | --- |
| 18 | 6.0 | 5.5 | 6.0 | -- | --- | -- | --- | --- | --- | --- | --- | --- |
| 19 | 6.0 | 5.5 | 6.0 | --- | --- | --- | --- | -- | -- | --- | - | - |
| 20 | 6.0 | 5.0 | 5.5 | - | --- | - | --- | -- | --- | --- | -- | --- |
| 21 | 6.0 | 5.0 | 5.5 | --- | --- | - | --- | -- | - | --- | --- | - |
| 22 | 6.0 | 5.5 | 5.5 | -- | --- | -- | --- | --- | -- | --- | -- | --- |
| 23 | 6.0 | 5.0 | 5.5 | --- | --- | - | --- | - | --- | --- | - | --- |
| 24 | 5.5 | 5.0 | 5.0 | --- | --- | --- | --- | --- | --- | -- | --- | --- |
| 25 | 5.5 | 5.0 | 5.0 | --- | --- | --- | --- | --- | --- | -- | --- | --- |
| 26 | 5.5 | 5.0 | 5.5 | --- | - | --- | --- | - | --- | --- | --- | - |
| 27 | 5.0 | 4.5 | 5.0 | --- | --- | -- | --- | --- | -- | --- | -- | -- |
| 28 | 5.0 | 4.0 | 4.5 | -- | --- | -- | --- | --- | --- | --- | --- | --- |
| 29 | 4.0 | 2.5 | 3.5 | -- | --- | --- | --- | - | --- | --- | --- | --- |
| 30 | 3.0 | 2.0 | 2.5 | --- | --- | - | --- | --- | --- | --- | --- | --- |
| 31 | 3.0 | 2.0 | 2.5 | --- | --- | -- | - | --- | -- | --- | - | - |
| MONTH | 7.0 | 2.0 | 5.4 | --- | --- | --- | - | -- | --- | --- | --- | - |
| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|  |  | FEBRUARY |  |  | MARCH |  |  | APRIL |  |  | MAY |  |
| 1 | --- | --- | --- | --- | --- | - | 4.5 | 2.5 | 3.5 | 5.5 | 3.5 | 4.5 |
| 2 | --- | --- | --- | --- | - | --- | 3.5 | 3.0 | 3.0 | 6.0 | 3.5 | 4.5 |
| 3 | --- | --- | --- | --- | --- | -- | 4.0 | 2.5 | 3.5 | 6.0 | 3.5 | 5.0 |
| 4 | --- | - | -- | --- | --- | -- | 5.0 | 3.0 | 4.0 | 7.0 | 3.5 | 5.0 |
| 5 | -- | --- | --- | - | -- | --- | 5.0 | 2.5 | 3.5 | 6.5 | 3.0 | 5.0 |
| 6 | -- | - | - | --- | --- | --- | 5.5 | 2.5 | 4.0 | 7.0 | 3.0 | 5.0 |
| 7 | --- | --- | --- | --- | --- | --- | 5.0 | 3.5 | 4.5 | 7.5 | 4.0 | 5.5 |
| 8 | --- | --- | --- | --- | --- | --- | 6.5 | 3.5 | 4.5 | 7.0 | 4.5 | 6.0 |
| 9 | - | --- | --- | -- | --- | -- | 5.0 | 3.0 | 4.0 | 6.0 | 4.5 | 5.0 |
| 10 | --- | --- | --- | -- | --- | --- | 4.5 | 3.5 | 4.0 | 7.5 | 4.5 | 6.0 |
| 11 | - | --- | --- | --- | --- | --- | 5.5 | 3.0 | 4.0 | 8.0 | 4.0 | 6.0 |
| 12 | -- | - | -- | - | --- | - | 4.0 | 2.5 | 3.0 | 8.0 | 4.0 | 6.0 |
| 13 | --- | --- | --- | --- | --- | --- | 5.0 | 3.0 | 3.5 | 8.5 | 4.0 | 6.5 |
| 14 | --- | --- | --- | - | - | --- | 6.0 | 2.5 | 4.0 | 7.5 | 4.0 | 6.0 |
| 15 | --- | --- | --- | --- | --- | --- | 5.0 | 2.0 | 3.5 | 8.5 | 4.0 | 6.0 |
| 16 | - | --- | - | --- | - | --- | 5.0 | 2.0 | 3.5 | 7.5 | 4.5 | 6.0 |
| 17 | --- | --- | --- | --- | --- | --- | 5.0 | 3.5 | 4.5 | 8.5 | 4.0 | 6.5 |
| 18 | --- | --- | --- | --- | --- | -- | 6.0 | 3.5 | 4.5 | 9.0 | 4.5 | 6.5 |
| 19 | --- | --- | --- | --- | --- | --- | 6.5 | 3.0 | 4.5 | 9.0 | 4.5 | 6.5 |
| 20 | --- | --- | --- | --- | --- | --- | 7.0 | 3.0 | 5.0 | 8.5 | 4.5 | 6.5 |
| 21 | --- | --- | --- | --- | --- | --- | 7.0 | 3.5 | 5.0 | 8.0 | 4.0 | 6.0 |
| 22 | --- | - | - | - | --- | --- | 5.5 | 3.5 | 4.0 | 8.5 | 4.0 | 6.0 |
| 23 | --- | --- | --- | --- | --- | --- | 5.5 | 3.5 | 4.5 | 9.0 | 5.0 | 7.0 |
| 24 | --- | --- | --- | --- | --- | --- | 4.5 | 3.5 | 4.0 | 7.5 | 5.0 | 6.0 |
| 25 | --- | --- | --- | -- | --- | --- | 4.0 | 3.5 | 4.0 | 7.5 | 5.5 | 6.5 |
| 26 | --- | --- | --- | --- | --- | --- | 5.0 | 3.0 | 4.0 | 7.0 | 5.0 | 6.0 |
| 27 | -- | - | --- | --- | --- | --- | 7.0 | 3.5 | 5.0 | 8.0 | 4.5 | 6.0 |
| 28 | - | --- | --- | --- | --- | --- | 7.0 | 3.5 | 5.5 | 8.5 | 5.0 | 6.5 |
| 29 | --- | --- | --- | --- | --- | --- | 7.5 | 3.5 | 5.5 | 7.5 | 5.0 | 6.5 |
| 30 | --- | --- | --- | --- | --- | --- | 7.5 | 3.5 | 5.5 | 8.0 | 5.5 | 6.5 |
| 31 | --- | --- | --- | --- | --- | - | --- | --- | --- | 7.5 | 5.0 | 6.5 |
| MONTH | --- | --- | --- | --- | --- | --- | 7.5 | 2.0 | 4.2 | 9.0 | 3.0 | 5.9 |

## SOUTHEAST ALASKA

15015595 UNUK RIVER BELOW BLUE RIVER NEAR WRANGELL—Continued
TEMPERATURE WATER, (DEGREES CELSIUS), WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | JUNE |  |  | JULY |  |  | AUGUST |  |  | SEPTEMBER |  |  |
| 1 | 8.0 | 5.5 | 6.5 | 9.0 | 6.5 | 7.5 | 8.5 | 6.0 | 7.5 | 8.0 | 7.0 | 7.5 |
| 2 | 8.5 | 5.5 | 7.0 | 8.0 | 6.5 | 7.0 | 8.0 | 6.5 | 7.0 | 8.0 | 6.5 | 7.0 |
| 3 | 9.5 | 5.0 | 7.5 | 10.0 | 6.0 | 8.0 | 8.5 | 6.5 | 7.5 | 7.5 | 7.0 | 7.0 |
| 4 | 8.0 | 5.5 | 7.0 | 8.5 | 6.0 | 7.5 | 9.0 | 7.0 | 7.5 | 7.5 | 6.0 | 7.0 |
| 5 | 8.0 | 6.0 | 7.0 | 7.5 | 6.5 | 7.0 | 8.5 | 7.0 | 7.5 | 8.0 | 6.5 | 7.0 |
| 6 | 8.5 | 5.5 | 6.5 | 7.5 | 6.5 | 7.0 | 9.0 | 7.0 | 7.5 | 8.5 | 6.5 | 7.5 |
| 7 | 10.0 | 5.5 | 7.5 | 6.5 | 5.5 | 6.0 | 9.0 | 7.0 | 7.5 | 7.5 | 6.5 | 7.0 |
| 8 | 9.5 | 5.5 | 7.5 | 9.0 | 6.0 | 7.5 | 9.0 | 6.5 | 8.0 | 8.0 | 6.0 | 7.0 |
| 9 | 7.5 | 5.5 | 6.5 | 11.0 | 6.5 | 8.5 | 9.0 | 7.0 | 8.0 | 7.5 | 6.0 | 6.5 |
| 10 | 7.5 | 5.0 | 6.5 | 9.0 | 7.0 | 8.0 | 9.0 | 7.0 | 8.0 | 7.5 | 6.5 | 7.0 |
| 11 | 8.0 | 5.5 | 7.0 | 9.5 | 6.5 | 7.5 | 8.5 | 7.0 | 7.5 | 7.5 | 7.0 | 7.0 |
| 12 | 7.5 | 5.5 | 6.5 | 9.0 | 6.5 | 7.5 | 8.5 | 7.0 | 7.5 | 7.0 | 6.5 | 7.0 |
| 13 | 7.0 | 6.0 | 6.5 | 10.5 | 6.5 | 8.5 | 8.5 | 7.5 | 7.5 | 7.0 | 6.5 | 7.0 |
| 14 | 8.0 | 5.5 | 6.5 | 9.5 | 6.5 | 8.0 | 8.5 | 7.5 | 8.0 | 7.0 | 6.5 | 7.0 |
| 15 | 7.5 | 6.0 | 6.5 | 10.5 | 6.5 | 8.5 | 9.5 | 7.0 | 8.0 | 7.5 | 6.5 | 7.0 |
| 16 | 10.5 | 5.5 | 8.0 | 9.0 | 7.0 | 8.0 | 9.0 | 6.5 | 8.0 | 7.5 | 6.5 | 7.0 |
| 17 | 10.5 | 6.0 | 8.5 | 9.5 | 7.0 | 8.0 | 10.0 | 6.5 | 8.0 | 7.5 | 6.5 | 7.0 |
| 18 | 10.5 | 6.5 | 8.5 | 10.5 | 6.5 | 8.5 | 10.0 | 6.5 | 8.0 | 7.5 | 7.0 | 7.0 |
| 19 | 10.5 | 6.0 | 8.0 | 9.0 | 7.0 | 7.5 | 8.5 | 6.5 | 7.5 | 7.5 | 6.5 | 7.0 |
| 20 | 10.0 | 6.0 | 8.0 | 8.5 | 7.0 | 7.5 | 8.5 | 6.5 | 7.5 | 7.5 | 6.5 | 7.0 |
| 21 | 10.0 | 6.0 | 8.0 | 10.0 | 7.0 | 8.0 | 9.0 | 6.5 | 7.5 | 7.0 | 6.5 | 6.5 |
| 22 | 10.0 | 6.0 | 8.0 | 10.5 | 6.0 | 8.0 | 9.5 | 6.5 | 7.5 | 6.5 | 6.0 | 6.0 |
| 23 | 10.0 | 6.0 | 8.0 | 11.0 | 6.5 | 8.5 | 9.0 | 5.5 | 7.0 | 6.5 | 6.0 | 6.0 |
| 24 | 10.5 | 6.0 | 8.0 | 11.0 | 6.5 | 8.5 | 9.0 | 6.0 | 7.5 | 6.5 | 6.5 | 6.5 |
| 25 | 10.0 | 6.0 | 8.0 | 9.0 | 7.0 | 8.0 | 9.0 | 6.0 | 7.5 | 7.0 | 6.0 | 6.5 |
| 26 | 10.5 | 6.5 | 8.5 | 9.5 | 6.5 | 8.0 | 8.5 | 6.5 | 7.0 | 7.0 | 5.5 | 6.5 |
| 27 | 8.5 | 6.5 | 7.5 | 10.5 | 6.5 | 8.5 | 7.5 | 6.5 | 7.0 | 7.5 | 6.5 | 7.0 |
| 28 | 9.5 | 6.0 | 7.5 | 9.0 | 7.5 | 7.5 | 8.0 | 6.0 | 7.0 | 7.0 | 5.5 | 6.5 |
| 29 | 9.5 | 6.5 | 7.5 | 9.0 | 7.0 | 8.0 | 8.0 | 6.5 | 7.0 | 7.0 | 5.5 | 6.5 |
| 30 | 7.5 | 6.5 | 7.0 | 9.0 | 6.5 | 7.5 | 8.0 | 6.5 | 7.0 | 8.0 | 6.5 | 7.0 |
| 31 | --- | --- | --- | 9.0 | 6.0 | 7.5 | 8.0 | 6.5 | 7.0 | --- | --- | --- |
| MONTH | 10.5 | 5.0 | 7.4 | 11.0 | 5.5 | 7.8 | 10.0 | 5.5 | 7.5 | 8.5 | 5.5 | 6.8 |

