

Water-Data Report 2010

05435935 BADGER MILL CREEK AT HIGHWAYS 18 & 151 AT MADISON, WI

Rock Basin
Sugar Subbasin

LOCATION.--Lat 42°59'55", long 89°29'55" referenced to North American Datum of 1927, in NE ¼ NW ¼ sec.13, T.6 N., R.8 E., Dane County, WI, Hydrologic Unit 07090004, on right bank upstream from HWY 18/151 and downstream from Nesbitt Pond at Madison.

DRAINAGE AREA.--11.8 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--July 2005 to December 2010 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 965 ft above NAVD of 1988, from topographic map.

REMARKS.--Records fair except those for estimated daily discharges and discharges less than 1.0 ft³/s, which are poor.

05435935 BADGER MILL CREEK AT HIGHWAYS 18 & 151 AT MADISON, WI—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

[e, estimated]

| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|--------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 1 | 0.15 | 2.8 | 0.32 | e0.01 | e1.2 | e0.00 | 0.00 | 1.4 | 0.00 | 0.23 | 1.5 | 19 |
| 2 | 2.2 | 0.92 | 0.00 | e0.06 | e0.00 | e0.27 | 0.34 | 0.61 | 0.00 | 0.22 | 0.69 | 63 |
| 3 | 1.1 | 0.44 | e0.07 | e0.00 | e1.2 | e0.00 | 0.11 | 0.20 | 0.21 | 0.15 | 0.28 | 29 |
| 4 | 0.54 | 0.12 | e0.13 | e0.00 | e0.88 | e0.00 | 0.12 | 0.21 | 1.6 | 0.38 | 0.17 | 7.1 |
| 5 | 0.10 | 0.24 | e0.04 | e0.00 | e1.7 | e0.49 | 0.00 | 0.11 | 12 | 0.21 | 0.00 | 3.2 |
| 6 | 0.60 | 0.45 | e0.19 | e0.90 | e0.37 | e0.23 | 24 | 0.00 | 12 | 0.60 | 0.07 | 2.7 |
| 7 | 1.1 | 0.27 | e0.05 | e0.00 | e0.47 | e0.00 | 19 | 0.00 | 2.0 | 14 | 0.00 | 1.9 |
| 8 | 0.43 | 0.18 | e0.84 | e0.00 | e1.5 | e0.37 | 21 | 0.39 | 1.7 | 10 | 11 | 0.99 |
| 9 | 0.09 | 0.00 | e0.58 | e0.00 | e1.3 | e0.00 | 5.8 | 0.29 | 1.4 | 2.4 | 10 | 0.63 |
| 10 | 0.02 | 0.00 | e0.53 | e0.96 | e0.63 | e9.3 | 1.8 | 0.03 | 0.40 | 0.84 | 2.7 | 0.57 |
| 11 | 0.00 | 0.00 | e0.00 | e0.30 | e2.9 | 12 | 0.58 | 4.1 | 0.29 | 0.29 | 1.0 | 1.2 |
| 12 | 0.00 | 0.00 | e0.26 | e0.72 | e0.19 | 7.4 | 0.31 | 2.7 | 0.03 | 0.28 | 0.15 | 1.2 |
| 13 | 0.00 | 0.25 | e0.50 | e1.1 | e0.00 | 3.0 | 0.10 | 25 | 0.00 | 0.13 | 93 | 0.50 |
| 14 | 0.00 | 0.00 | e0.17 | e0.00 | e0.52 | 1.4 | 0.14 | 5.5 | 0.00 | 0.26 | 81 | 0.21 |
| 15 | 0.00 | 0.00 | e0.32 | e0.00 | e0.52 | 0.71 | 0.29 | 1.4 | 3.2 | 4.1 | 9.2 | 0.09 |
| 16 | 0.04 | 0.00 | e0.37 | e0.48 | e1.3 | 0.20 | 0.00 | 0.54 | 4.7 | 2.4 | 2.6 | 0.19 |
| 17 | 0.00 | 0.00 | e0.15 | e0.00 | e0.90 | 0.00 | 0.00 | 0.34 | 1.5 | 0.82 | 1.5 | 0.36 |
| 18 | 0.06 | 0.00 | e0.05 | e0.00 | e0.21 | 0.30 | 0.00 | 0.23 | 1.3 | 0.42 | 1.1 | 5.7 |
| 19 | 0.09 | 0.11 | e0.00 | e0.08 | e0.00 | 0.00 | 0.00 | 0.00 | 0.78 | 0.27 | 0.86 | 3.2 |
| 20 | 0.00 | 0.05 | e0.02 | e0.17 | e0.02 | 0.00 | 0.00 | 0.00 | 0.28 | 0.25 | 0.92 | 1.3 |
| 21 | 0.02 | 0.00 | e0.04 | e0.11 | e0.00 | 0.00 | 0.00 | 0.12 | 18 | 0.12 | 1.6 | 0.98 |
| 22 | 1.6 | 0.00 | e0.21 | e0.00 | e0.00 | 0.00 | 0.00 | 0.18 | 42 | 111 | 0.79 | 0.39 |
| 23 | 28 | 0.00 | e0.23 | e0.44 | e1.6 | 0.00 | 0.00 | 0.32 | e20 | 114 | 0.41 | 0.60 |
| 24 | 9.4 | 0.00 | e0.53 | e7.3 | e0.00 | 0.00 | 0.00 | 0.00 | 9.2 | 34 | 0.23 | 1.2 |
| 25 | 3.2 | 2.7 | e18 | e7.3 | e0.00 | 0.00 | 9.8 | 0.00 | 3.1 | 11 | 0.07 | 0.72 |
| 26 | 1.2 | 7.7 | 11 | e1.8 | e0.00 | 0.00 | 3.9 | 0.00 | 8.6 | 3.3 | 0.00 | 0.19 |
| 27 | 0.67 | 2.5 | e3.1 | e0.69 | e0.00 | 0.00 | 0.92 | 0.27 | 4.4 | 1.9 | 0.00 | 0.06 |
| 28 | 0.53 | 0.71 | e1.3 | e0.04 | e0.68 | 0.00 | 0.32 | 0.15 | 1.9 | 1.1 | 0.05 | 0.08 |
| 29 | 0.41 | 0.11 | e0.40 | e0.00 | --- | 0.00 | 0.30 | 0.00 | 0.66 | 0.64 | 0.05 | 0.19 |
| 30 | 28 | 0.49 | e0.81 | e0.00 | --- | 0.07 | 0.49 | 0.06 | 0.31 | 0.54 | 0.00 | 0.12 |
| 31 | 8.2 | --- | e0.79 | e0.35 | --- | 0.12 | --- | 0.00 | --- | 3.9 | 1.9 | --- |
| Total | 87.75 | 20.04 | 41.00 | 22.81 | 18.09 | 35.86 | 89.32 | 44.15 | 151.56 | 319.75 | 222.84 | 146.57 |
| Mean | 2.83 | 0.67 | 1.32 | 0.74 | 0.65 | 1.16 | 2.98 | 1.42 | 5.05 | 10.3 | 7.19 | 4.89 |
| Max | 28 | 7.7 | 18 | 7.3 | 2.9 | 12 | 24 | 25 | 42 | 114 | 93 | 63 |
| Min | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.12 | 0.00 | 0.06 |
| Cfsm | 0.24 | 0.06 | 0.11 | 0.06 | 0.05 | 0.10 | 0.25 | 0.12 | 0.43 | 0.87 | 0.61 | 0.41 |
| In. | 0.28 | 0.06 | 0.13 | 0.07 | 0.06 | 0.11 | 0.28 | 0.14 | 0.48 | 1.01 | 0.70 | 0.46 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2005 - 2010, BY WATER YEAR (WY)

| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Mean | 1.30 | 0.57 | 0.73 | 0.83 | 1.05 | 3.80 | 4.96 | 1.78 | 5.90 | 3.49 | 5.74 | 1.88 |
| Max | 2.83 | 1.02 | 1.48 | 2.34 | 4.26 | 11.0 | 10.2 | 3.43 | 18.3 | 10.3 | 19.7 | 4.89 |
| (WY) | (2010) | (2007) | (2009) | (2008) | (2009) | (2009) | (2008) | (2009) | (2008) | (2010) | (2007) | (2010) |
| Min | 0.00 | 0.01 | 0.01 | 0.00 | 0.00 | 1.01 | 2.98 | 0.03 | 0.77 | 0.18 | 0.03 | 0.20 |
| (WY) | (2006) | (2008) | (2006) | (2007) | (2007) | (2006) | (2010) | (2007) | (2006) | (2007) | (2005) | (2005) |

05435935 BADGER MILL CREEK AT HIGHWAYS 18 & 151 AT MADISON, WI—Continued

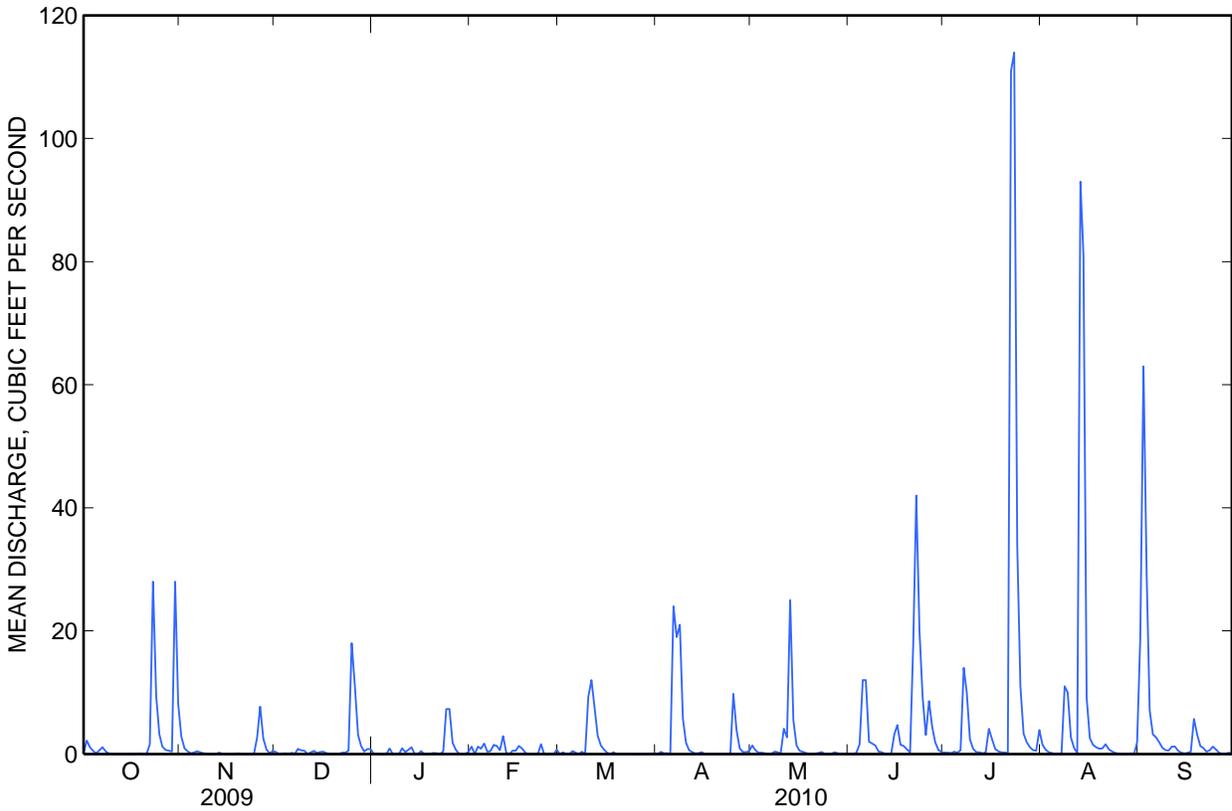
SUMMARY STATISTICS

| | Calendar Year 2009 | | Water Year 2010 | | Water Years 2005 - 2010 | |
|---------------------------------|--------------------|--------------------|-----------------|---------------------|-------------------------|---------------------------|
| Annual total | 1,151.45 | | 1,199.74 | | | |
| Annual mean | 3.15 | | 3.29 | | 2.80 | |
| Highest annual mean | | | | | 3.87 | 2008 |
| Lowest annual mean | | | | | 1.36 | 2006 |
| Highest daily mean | 67 | Jun 19 | 114 | Jul 23 | 213 | Aug 19, 2007 |
| Lowest daily mean | 0.00 | Jan 1 ^a | 0.00 | Oct 11 ^a | 0.00 | Jul 29, 2005 ^a |
| Annual seven-day minimum | 0.00 | Jan 7 ^a | 0.00 | Mar 19 ^a | 0.00 | Jul 29, 2005 ^a |
| Maximum peak flow | | | 860 | Jul 22 | ^b 860 | Jul 22, 2010 |
| Maximum peak stage | | | 7.37 | Jul 22 | ^c 7.38 | Jun 8, 2008 |
| Annual runoff (cfsm) | 0.267 | | 0.279 | | 0.237 | |
| Annual runoff (inches) | 3.63 | | 3.78 | | 3.22 | |
| 10 percent exceeds | 7.0 | | 7.3 | | 4.6 | |
| 50 percent exceeds | 0.37 | | 0.30 | | 0.23 | |
| 90 percent exceeds | 0.00 | | 0.00 | | 0.00 | |

^a Occurred many days.

^b Gage height, 7.37 ft.

^c Discharge estimated, 855 ft³/s.



05435935 BADGER MILL CREEK AT HIGHWAYS 18 & 151 AT MADISON, WI—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES

[e, estimated]

| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|--------------|-------|-------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1 | 0.19 | 0.21 | e0.65 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2 | 0.00 | 0.32 | e0.94 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 3 | 0.09 | 0.42 | e0.00 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4 | 0.06 | 0.25 | e0.39 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 5 | 0.18 | 0.01 | e1.8 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 6 | 0.28 | 0.22 | e1.2 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 7 | 0.11 | 0.44 | e0.21 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | 0.20 | 0.34 | e0.00 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 9 | 0.00 | 0.19 | e0.19 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 10 | 0.20 | 0.46 | e0.82 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 11 | 0.00 | 0.26 | e0.53 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 12 | 0.02 | 0.00 | e0.61 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13 | 0.07 | 0.54 | e0.51 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 14 | 0.16 | 1.0 | e0.66 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 15 | 0.07 | 0.63 | e0.00 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 16 | 0.21 | 0.31 | e0.36 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 17 | 0.07 | 0.29 | e0.27 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 18 | 0.00 | 0.30 | e0.00 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 19 | 0.09 | 0.56 | e0.16 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 20 | 0.19 | 0.00 | e0.34 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 21 | 0.00 | 0.37 | e0.24 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 22 | 0.18 | 0.46 | e0.39 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 23 | 0.37 | e0.37 | e0.17 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 24 | 17 | e0.13 | e0.21 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 25 | 7.2 | 2.0 | e0.28 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 26 | 25 | e1.3 | e0.31 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 27 | 6.4 | e0.44 | e0.28 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 28 | 1.7 | e0.91 | e0.19 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 29 | 0.98 | e0.11 | e0.77 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 30 | 0.80 | e0.62 | e0.19 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 31 | 0.25 | --- | e4.6 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Total | 62.07 | 13.46 | 17.27 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Mean | 2.00 | 0.45 | 0.56 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Max | 25 | 2.0 | 4.6 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Min | 0.00 | 0.00 | 0.00 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Cfsm | 0.17 | 0.04 | 0.05 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| In. | 0.20 | 0.04 | 0.05 | --- | --- | --- | --- | --- | --- | --- | --- | --- |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2005 - 2011, BY WATER YEAR (WY)

| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Mean | 1.42 | 0.55 | 0.70 | 0.83 | 1.05 | 3.80 | 4.96 | 1.78 | 5.90 | 3.36 | 5.74 | 1.88 |
| Max | 2.83 | 1.02 | 1.48 | 2.34 | 4.26 | 11.0 | 10.2 | 3.43 | 18.3 | 10.3 | 19.7 | 4.89 |
| (WY) | (2010) | (2007) | (2009) | (2008) | (2009) | (2009) | (2008) | (2009) | (2008) | (2010) | (2007) | (2010) |
| Min | 0.00 | 0.01 | 0.01 | 0.00 | 0.00 | 1.01 | 2.98 | 0.03 | 0.77 | 0.18 | 0.03 | 0.20 |
| (WY) | (2006) | (2008) | (2006) | (2007) | (2007) | (2006) | (2010) | (2007) | (2006) | (2007) | (2005) | (2005) |

05435935 BADGER MILL CREEK AT HIGHWAYS 18 & 151 AT MADISON, WI—Continued

05435935 BADGER MILL CREEK AT HIGHWAYS 18 & 151 AT MADISON, WI—Continued**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--July 2005 to December 2010 (discontinued).

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: July, 2005 to December 2010 (discontinued).

SPECIFIC CONDUCTANCE: July, 2005 to December 2010 (discontinued).

INSTRUMENTATION.--Continuous water temperature and specific conductance recorder, July 2005 to December 2010 (discontinued).

REMARKS.--Records represent water temperature at sensor within 0.1°C. Records are good, except when faulty.

EXTREMES FOR PERIOD OF RECORD.--

WATER TEMPERATURE: Maximum, 33.1°C, June 23, 2009; minimum, 0.0°C, occurred many days.

SPECIFIC CONDUCTANCE: Maximum, 3,160 µS/cm, Mar. 10, 2007; minimum, 59 µS/cm, Aug. 24, 2006.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 31.5°C, July 17; minimum, 0.0°C, Nov. 27.

SPECIFIC CONDUCTANCE: Maximum, 970 µS/cm, Feb. 15; minimum, 78 µS/cm, July 22.

**TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**

| Day | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean |
|-------|---------|------|------|----------|------|------|----------|-----|------|---------|-----|------|
| | October | | | November | | | December | | | January | | |
| 1 | 14.8 | 13.0 | 13.5 | 9.8 | 9.1 | 9.4 | 4.8 | 3.2 | 4.0 | 0.7 | 0.5 | 0.5 |
| 2 | 14.4 | 13.3 | 13.9 | 10.4 | 8.3 | 9.2 | 4.1 | 2.8 | 3.6 | 0.7 | 0.4 | 0.5 |
| 3 | 15.5 | 14.1 | 14.6 | 9.3 | 7.2 | 8.1 | 3.1 | 2.5 | 2.8 | 0.6 | 0.4 | 0.4 |
| 4 | 14.2 | 13.2 | 13.8 | 9.2 | 7.5 | 8.1 | 2.6 | 0.9 | 1.8 | 0.6 | 0.3 | 0.4 |
| 5 | 15.6 | 12.5 | 14.1 | 8.7 | 6.9 | 7.6 | 1.8 | 0.8 | 1.3 | 0.6 | 0.3 | 0.4 |
| 6 | 14.6 | 12.0 | 13.2 | 9.4 | 7.1 | 8.3 | 2.4 | 1.0 | 1.6 | 0.5 | 0.2 | 0.3 |
| 7 | 12.3 | 11.3 | 11.9 | 11.0 | 8.6 | 9.6 | 1.8 | 1.3 | 1.6 | 0.4 | 0.2 | 0.3 |
| 8 | 12.2 | 11.3 | 11.8 | 11.9 | 8.6 | 10.1 | 1.7 | 1.3 | 1.6 | 0.5 | 0.3 | 0.4 |
| 9 | 11.4 | 9.5 | 10.5 | 12.1 | 10.2 | 11.2 | 1.5 | 1.0 | 1.2 | 0.4 | 0.3 | 0.3 |
| 10 | 9.7 | 7.9 | 8.9 | 11.6 | 9.1 | 10.2 | 1.4 | 0.9 | 1.2 | 0.4 | 0.2 | 0.3 |
| 11 | 9.7 | 6.9 | 8.1 | 10.5 | 8.2 | 9.1 | 1.8 | 1.4 | 1.5 | 0.4 | 0.2 | 0.3 |
| 12 | 8.4 | 7.2 | 7.9 | 9.4 | 7.5 | 8.3 | 1.8 | 1.4 | 1.6 | 0.4 | 0.2 | 0.3 |
| 13 | 9.4 | 5.8 | 7.3 | 8.7 | 6.9 | 7.7 | 1.7 | 1.4 | 1.6 | 0.4 | 0.3 | 0.3 |
| 14 | 8.3 | 7.0 | 7.5 | 8.8 | 7.5 | 8.1 | 1.6 | 1.4 | 1.5 | 0.4 | 0.3 | 0.4 |
| 15 | 7.5 | 6.4 | 7.0 | 7.7 | 6.2 | 6.9 | 1.7 | 1.3 | 1.4 | 0.4 | 0.3 | 0.3 |
| 16 | 8.5 | 5.7 | 6.9 | 7.1 | 5.5 | 6.1 | 1.6 | 1.2 | 1.4 | 0.4 | 0.2 | 0.3 |
| 17 | 8.7 | 6.1 | 7.1 | 6.9 | 4.8 | 5.6 | 1.5 | 1.1 | 1.3 | 0.5 | 0.3 | 0.4 |
| 18 | 9.0 | 5.8 | 7.1 | 6.5 | 5.3 | 5.9 | 1.4 | 1.0 | 1.3 | 0.6 | 0.3 | 0.4 |
| 19 | 10.8 | 6.7 | 8.3 | 6.5 | 5.8 | 6.1 | 1.3 | 1.1 | 1.2 | 0.5 | 0.2 | 0.4 |
| 20 | 10.3 | 8.6 | 9.5 | 7.8 | 5.9 | 6.5 | 1.4 | 1.1 | 1.2 | 0.5 | 0.3 | 0.4 |
| 21 | 13.3 | 9.6 | 11.0 | 7.5 | 5.2 | 6.2 | 1.4 | 1.1 | 1.2 | 0.5 | 0.3 | 0.4 |
| 22 | 12.2 | 9.7 | 10.6 | 8.1 | 6.1 | 6.8 | 1.3 | 1.0 | 1.2 | 0.5 | 0.3 | 0.4 |
| 23 | 9.7 | 8.2 | 8.8 | 7.2 | 5.9 | 6.6 | 1.2 | 1.1 | 1.1 | 0.5 | 0.4 | 0.4 |
| 24 | 9.0 | 8.2 | 8.6 | 7.4 | 6.7 | 7.0 | 1.3 | 1.1 | 1.2 | 1.8 | 0.4 | 0.7 |
| 25 | 10.3 | 8.8 | 9.5 | 7.2 | 6.6 | 7.0 | 3.5 | 0.4 | 1.8 | 0.4 | 0.2 | 0.3 |
| 26 | 10.6 | 10.0 | 10.3 | 6.6 | 5.0 | 5.9 | 0.5 | 0.3 | 0.4 | 0.7 | 0.3 | 0.5 |
| 27 | 11.8 | 9.2 | 10.3 | 5.1 | 4.5 | 4.7 | 0.5 | 0.3 | 0.4 | 0.9 | 0.5 | 0.6 |
| 28 | 10.8 | 10.1 | 10.5 | 6.2 | 4.2 | 4.9 | 0.7 | 0.3 | 0.5 | 1.3 | 0.5 | 0.8 |
| 29 | 11.0 | 10.5 | 10.8 | 4.8 | 3.8 | 4.3 | 1.0 | 0.5 | 0.6 | 1.6 | 0.6 | 0.9 |
| 30 | 13.1 | 10.8 | 12.0 | 4.7 | 3.7 | 4.0 | 0.8 | 0.5 | 0.6 | 1.5 | 0.7 | 0.9 |
| 31 | 12.0 | 9.8 | 10.8 | --- | --- | --- | 0.7 | 0.5 | 0.6 | 1.9 | 0.6 | 1.0 |
| Month | 15.6 | 5.7 | 10.2 | 12.1 | 3.7 | 7.3 | 4.8 | 0.3 | 1.4 | 1.9 | 0.2 | 0.5 |

05435935 BADGER MILL CREEK AT HIGHWAYS 18 & 151 AT MADISON, WI—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

| Day | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean |
|--------------|----------|-----|------|-------|-----|------|-------|------|------|------|------|------|
| | February | | | March | | | April | | | May | | |
| 1 | 1.5 | 0.7 | 0.9 | 0.9 | 0.3 | 0.5 | 15.7 | 10.6 | 13.0 | 17.5 | 16.0 | 16.7 |
| 2 | 0.8 | 0.7 | 0.8 | 0.8 | 0.2 | 0.4 | 15.8 | 13.1 | 14.2 | 19.2 | 16.4 | 17.7 |
| 3 | 0.9 | 0.6 | 0.7 | 0.6 | 0.2 | 0.3 | 14.9 | 12.8 | 13.7 | 18.8 | 16.7 | 17.6 |
| 4 | 0.8 | 0.5 | 0.7 | 0.7 | 0.2 | 0.3 | 13.8 | 11.5 | 12.8 | 20.2 | 16.1 | 17.9 |
| 5 | 1.0 | 0.6 | 0.8 | 0.8 | 0.2 | 0.4 | 15.8 | 11.2 | 13.2 | 19.4 | 15.9 | 17.7 |
| 6 | 1.0 | 0.6 | 0.8 | 1.0 | 0.2 | 0.5 | 14.0 | 11.6 | 12.6 | 18.9 | 14.9 | 16.8 |
| 7 | 1.0 | 0.6 | 0.8 | 0.7 | 0.3 | 0.4 | 11.6 | 9.0 | 10.7 | 17.1 | 14.0 | 14.7 |
| 8 | 0.9 | 0.6 | 0.7 | 0.8 | 0.3 | 0.4 | 9.0 | 7.1 | 8.0 | 14.0 | 12.3 | 13.2 |
| 9 | 0.8 | 0.7 | 0.7 | 0.8 | 0.3 | 0.5 | 9.5 | 6.5 | 7.7 | 17.5 | 11.5 | 14.3 |
| 10 | 0.8 | 0.6 | 0.7 | 0.8 | 0.5 | 0.7 | 10.4 | 7.6 | 9.1 | 15.6 | 12.4 | 14.2 |
| 11 | 0.7 | 0.5 | 0.6 | 1.4 | 0.6 | 0.8 | 14.2 | 9.8 | 11.8 | 12.5 | 11.2 | 11.6 |
| 12 | 0.7 | 0.5 | 0.6 | 1.9 | 1.4 | 1.7 | 12.5 | 11.1 | 11.9 | 11.4 | 10.6 | 11.0 |
| 13 | 0.7 | 0.5 | 0.6 | 2.0 | 1.6 | 1.8 | 14.2 | 10.3 | 12.0 | 11.2 | 9.3 | 10.4 |
| 14 | 0.6 | 0.4 | 0.5 | 3.9 | 1.5 | 2.6 | 15.9 | 11.5 | 13.5 | 13.2 | 10.5 | 11.7 |
| 15 | 0.6 | 0.4 | 0.5 | 6.2 | 2.6 | 4.2 | 16.6 | 13.8 | 15.1 | 17.8 | 12.2 | 14.7 |
| 16 | 0.6 | 0.4 | 0.5 | 7.2 | 3.8 | 5.3 | 17.2 | 14.1 | 15.4 | 16.0 | 14.2 | 15.2 |
| 17 | 0.6 | 0.5 | 0.5 | 7.6 | 3.9 | 5.6 | 15.8 | 12.3 | 13.7 | 17.9 | 13.7 | 15.8 |
| 18 | 0.7 | 0.4 | 0.5 | 7.8 | 3.8 | 5.5 | 17.2 | 11.9 | 14.2 | 19.9 | 15.2 | 17.3 |
| 19 | 0.7 | 0.4 | 0.5 | 7.7 | 2.7 | 4.8 | 16.0 | 13.0 | 14.6 | 22.5 | 16.1 | 19.1 |
| 20 | 0.6 | 0.4 | 0.5 | 5.9 | 3.2 | 4.2 | 17.4 | 13.7 | 15.6 | 22.0 | 18.4 | 20.0 |
| 21 | 0.7 | 0.5 | 0.5 | 8.4 | 3.4 | 5.5 | 18.5 | 15.1 | 16.6 | 19.6 | 18.1 | 18.9 |
| 22 | 0.6 | 0.5 | 0.6 | 9.0 | 4.4 | 6.5 | 17.2 | 13.6 | 15.4 | 22.3 | 18.1 | 20.2 |
| 23 | 0.7 | 0.5 | 0.6 | 9.7 | 5.6 | 7.7 | 16.7 | 14.4 | 15.6 | 25.4 | 20.3 | 22.8 |
| 24 | 0.7 | 0.5 | 0.5 | 10.5 | 7.7 | 8.8 | 14.5 | 13.3 | 14.0 | 27.8 | 23.6 | 25.7 |
| 25 | 0.6 | 0.4 | 0.5 | 9.5 | 5.8 | 7.9 | 13.3 | 11.8 | 12.6 | 28.2 | 24.7 | 26.0 |
| 26 | 0.6 | 0.3 | 0.4 | 9.5 | 4.5 | 6.8 | 15.2 | 11.1 | 13.0 | 28.3 | 23.9 | 26.1 |
| 27 | 0.6 | 0.3 | 0.4 | 9.2 | 6.0 | 7.2 | 15.7 | 11.5 | 13.6 | 28.0 | 24.6 | 26.1 |
| 28 | 0.7 | 0.3 | 0.5 | 10.0 | 5.6 | 7.5 | 15.8 | 12.4 | 14.1 | 27.8 | 23.3 | 25.4 |
| 29 | --- | --- | --- | 11.0 | 5.7 | 8.0 | 16.9 | 13.4 | 15.0 | 28.0 | 23.5 | 25.8 |
| 30 | --- | --- | --- | 11.3 | 7.6 | 9.1 | 17.6 | 14.9 | 16.1 | 29.0 | 24.8 | 26.9 |
| 31 | --- | --- | --- | 13.6 | 8.7 | 10.8 | --- | --- | --- | 27.6 | 24.7 | 26.2 |
| Month | 1.5 | 0.3 | 0.6 | 13.6 | 0.2 | 4.1 | 18.5 | 6.5 | 13.3 | 29.0 | 9.3 | 18.6 |

05435935 BADGER MILL CREEK AT HIGHWAYS 18 & 151 AT MADISON, WI—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

| Day | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean |
|--------------|------|------|------|------|------|------|--------|------|------|-----------|------|------|
| | June | | | July | | | August | | | September | | |
| 1 | 27.4 | 22.5 | 24.9 | 27.4 | 23.5 | 25.5 | 27.0 | 24.2 | 25.6 | 24.7 | 23.1 | 23.7 |
| 2 | 27.0 | 23.8 | 24.9 | 26.9 | 23.6 | 25.2 | 26.8 | 25.2 | 25.9 | 24.5 | 21.5 | 23.1 |
| 3 | 26.9 | 22.7 | 24.6 | 27.8 | 23.3 | 25.4 | 28.0 | 24.8 | 26.4 | 21.5 | 19.2 | 20.4 |
| 4 | 24.4 | 22.2 | 23.0 | 27.0 | 24.3 | 25.6 | 28.3 | 26.3 | 27.1 | 19.4 | 18.1 | 18.7 |
| 5 | 24.3 | 20.8 | 22.7 | 25.6 | 24.7 | 25.2 | 27.1 | 24.6 | 26.1 | 19.5 | 17.8 | 18.6 |
| 6 | 21.9 | 19.8 | 20.8 | 27.9 | 24.6 | 26.1 | 26.3 | 23.6 | 24.8 | 19.9 | 18.3 | 19.0 |
| 7 | 23.9 | 20.0 | 21.8 | 28.2 | 26.3 | 26.9 | 26.6 | 22.9 | 24.4 | 19.2 | 17.2 | 18.1 |
| 8 | 21.6 | 18.8 | 19.6 | 29.0 | 25.8 | 27.2 | 25.2 | 23.6 | 24.4 | 19.7 | 16.6 | 18.0 |
| 9 | 21.8 | 18.5 | 20.0 | 29.8 | 25.8 | 27.8 | 29.2 | 24.0 | 26.0 | 19.1 | 17.6 | 18.2 |
| 10 | 23.2 | 20.1 | 21.7 | 30.0 | 26.3 | 27.9 | 30.3 | 25.9 | 27.9 | 20.2 | 17.0 | 18.5 |
| 11 | 24.2 | 20.0 | 22.1 | 27.6 | 25.9 | 26.7 | 29.7 | 26.8 | 28.2 | 20.8 | 18.6 | 19.3 |
| 12 | 25.7 | 23.2 | 24.2 | 27.9 | 25.1 | 26.2 | 30.0 | 26.8 | 28.1 | 21.7 | 18.3 | 19.8 |
| 13 | 24.1 | 22.7 | 23.3 | 30.5 | 25.1 | 27.7 | 27.8 | 22.6 | 26.2 | 21.2 | 19.3 | 20.2 |
| 14 | 22.8 | 21.3 | 22.2 | 29.6 | 26.4 | 28.0 | 25.3 | 22.5 | 23.7 | 20.7 | 18.5 | 19.5 |
| 15 | 21.5 | 20.4 | 20.9 | 29.1 | 26.3 | 27.6 | 25.5 | 23.6 | 24.6 | 20.6 | 18.6 | 19.6 |
| 16 | 24.4 | 20.0 | 22.0 | 28.0 | 26.1 | 27.1 | 24.8 | 23.1 | 24.0 | 20.0 | 18.9 | 19.5 |
| 17 | 26.6 | 22.1 | 24.2 | 31.5 | 26.5 | 28.9 | 24.0 | 22.8 | 23.4 | 20.5 | 18.1 | 19.2 |
| 18 | 26.0 | 23.5 | 24.6 | 29.7 | 27.2 | 28.5 | 24.3 | 22.2 | 23.2 | 20.6 | 18.9 | 19.7 |
| 19 | 26.2 | 22.6 | 24.2 | 29.1 | 26.6 | 27.7 | 25.6 | 23.1 | 24.3 | 18.9 | 17.8 | 18.2 |
| 20 | 28.4 | 23.5 | 25.6 | 29.4 | 26.2 | 27.8 | 26.6 | 24.8 | 25.5 | 19.3 | 17.3 | 18.1 |
| 21 | 26.7 | 22.9 | 25.2 | 30.4 | 26.3 | 28.3 | 27.3 | 24.7 | 25.9 | 20.2 | 18.5 | 19.3 |
| 22 | 27.4 | 22.6 | 24.2 | 28.2 | 24.4 | 26.0 | 28.0 | 24.9 | 26.2 | 21.3 | 19.2 | 20.2 |
| 23 | --- | --- | --- | 26.3 | 23.9 | 24.8 | 27.8 | 24.5 | 26.1 | 21.6 | 19.6 | 20.5 |
| 24 | 28.5 | 23.7 | 25.7 | 26.9 | 24.1 | 25.5 | 26.1 | 23.9 | 25.2 | 20.7 | 18.6 | 19.7 |
| 25 | 27.8 | 24.8 | 26.3 | 28.6 | 24.8 | 26.5 | 24.9 | 22.3 | 23.5 | 18.8 | 17.2 | 18.0 |
| 26 | 28.8 | 24.3 | 26.4 | 27.8 | 25.1 | 26.4 | 23.6 | 21.0 | 22.2 | 17.3 | 15.6 | 16.6 |
| 27 | 27.1 | 25.1 | 26.3 | 28.1 | 25.6 | 27.0 | 24.6 | 20.9 | 22.5 | 17.5 | 14.1 | 15.6 |
| 28 | 26.4 | 24.5 | 25.6 | 27.9 | 26.3 | 27.1 | 24.7 | 21.3 | 22.7 | 17.3 | 14.8 | 16.0 |
| 29 | 27.6 | 23.2 | 25.1 | 27.5 | 24.9 | 26.2 | 25.8 | 20.9 | 23.1 | 18.8 | 15.4 | 17.2 |
| 30 | 28.5 | 22.9 | 25.5 | 26.1 | 24.4 | 25.2 | 25.4 | 22.8 | 24.0 | 19.1 | 16.1 | 17.5 |
| 31 | --- | --- | --- | 27.2 | 24.2 | 25.3 | 25.4 | 23.9 | 24.7 | --- | --- | --- |
| Month | --- | --- | --- | 31.5 | 23.3 | 26.7 | 30.3 | 20.9 | 25.0 | 24.7 | 14.1 | 19.0 |

05435935 BADGER MILL CREEK AT HIGHWAYS 18 & 151 AT MADISON, WI—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

| Day | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean |
|--------------|---------|------|------|----------|-----|------|----------|-----|------|---------|-----|------|
| | October | | | November | | | December | | | January | | |
| 1 | 18.2 | 15.2 | 16.7 | 9.7 | 6.3 | 8.0 | 1.8 | 1.3 | 1.5 | --- | --- | --- |
| 2 | 16.3 | 14.0 | 14.9 | 8.6 | 7.0 | 7.7 | 2.1 | 1.0 | 1.6 | --- | --- | --- |
| 3 | 16.0 | 13.0 | 14.3 | 8.6 | 7.1 | 7.7 | 2.4 | 1.7 | 2.0 | --- | --- | --- |
| 4 | 17.0 | 12.8 | 14.7 | 8.1 | 6.1 | 7.3 | 2.1 | 1.8 | 1.9 | --- | --- | --- |
| 5 | 16.0 | 12.8 | 14.4 | 7.1 | 5.5 | 6.0 | 1.9 | 1.4 | 1.8 | --- | --- | --- |
| 6 | 16.1 | 13.2 | 14.7 | 6.5 | 5.1 | 5.6 | 1.8 | 1.6 | 1.7 | --- | --- | --- |
| 7 | 17.5 | 14.0 | 15.6 | 6.7 | 5.0 | 5.7 | 1.9 | 1.6 | 1.7 | --- | --- | --- |
| 8 | 17.1 | 14.4 | 15.7 | 7.5 | 5.5 | 6.4 | 2.0 | 1.7 | 1.8 | --- | --- | --- |
| 9 | 18.8 | 15.3 | 16.8 | 8.6 | 6.1 | 7.3 | 2.0 | 1.8 | 1.9 | --- | --- | --- |
| 10 | 19.3 | 16.4 | 17.9 | 9.2 | 7.4 | 8.3 | 2.0 | 1.8 | 1.9 | --- | --- | --- |
| 11 | 19.7 | 16.9 | 18.3 | 9.2 | 8.3 | 8.7 | 2.0 | 1.7 | 1.9 | --- | --- | --- |
| 12 | 20.0 | 17.1 | 18.5 | 9.0 | 7.7 | 8.3 | 1.8 | 1.3 | 1.6 | --- | --- | --- |
| 13 | 18.9 | 15.4 | 17.1 | 8.2 | 7.1 | 7.7 | 2.4 | 1.8 | 2.1 | --- | --- | --- |
| 14 | 16.1 | 14.3 | 15.1 | 7.2 | 5.9 | 6.6 | 2.6 | 2.3 | 2.5 | --- | --- | --- |
| 15 | 15.9 | 13.3 | 14.4 | 6.6 | 5.4 | 6.0 | 2.7 | 2.4 | 2.6 | --- | --- | --- |
| 16 | 15.0 | 12.9 | 13.8 | 6.9 | 5.5 | 6.3 | 2.6 | 2.2 | 2.4 | --- | --- | --- |
| 17 | 15.3 | 12.6 | 13.7 | 6.4 | 5.4 | 6.1 | 2.6 | 2.2 | 2.4 | --- | --- | --- |
| 18 | 15.1 | 12.7 | 13.6 | 5.8 | 4.8 | 5.3 | 2.6 | 2.2 | 2.4 | --- | --- | --- |
| 19 | 13.6 | 11.8 | 12.6 | 4.8 | 4.1 | 4.5 | 2.6 | 2.1 | 2.3 | --- | --- | --- |
| 20 | 13.2 | 11.4 | 12.1 | 4.3 | 2.8 | 3.5 | 2.3 | 2.0 | 2.2 | --- | --- | --- |
| 21 | 12.9 | 10.8 | 11.6 | 4.8 | 3.0 | 3.9 | 2.2 | 1.7 | 1.9 | --- | --- | --- |
| 22 | 12.2 | 10.0 | 11.0 | 6.3 | 4.7 | 5.3 | 1.8 | 1.6 | 1.7 | --- | --- | --- |
| 23 | 12.3 | 10.9 | 11.6 | 5.1 | 2.8 | 4.1 | 1.8 | 1.3 | 1.6 | --- | --- | --- |
| 24 | 14.0 | 11.9 | 12.8 | 3.2 | 2.3 | 2.7 | 1.6 | 1.5 | 1.6 | --- | --- | --- |
| 25 | 14.5 | 13.5 | 14.0 | 3.0 | 1.4 | 2.6 | 1.6 | 1.5 | 1.5 | --- | --- | --- |
| 26 | 14.5 | 12.9 | 14.0 | 1.4 | 0.1 | 0.7 | 1.6 | 1.3 | 1.5 | --- | --- | --- |
| 27 | 13.0 | 9.9 | 11.5 | 0.9 | 0.0 | 0.4 | 1.7 | 1.2 | 1.4 | --- | --- | --- |
| 28 | 9.9 | 8.3 | 9.2 | 1.7 | 0.5 | 1.1 | 1.6 | 1.1 | 1.3 | --- | --- | --- |
| 29 | 8.7 | 7.5 | 8.0 | 2.1 | 1.1 | 1.6 | 1.5 | 1.1 | 1.2 | --- | --- | --- |
| 30 | 9.0 | 7.4 | 8.0 | 1.7 | 1.3 | 1.5 | 1.4 | 1.2 | 1.3 | --- | --- | --- |
| 31 | 9.5 | 6.6 | 7.9 | --- | --- | --- | 3.1 | 1.4 | 2.3 | --- | --- | --- |
| Month | 20.0 | 6.6 | 13.7 | 9.7 | 0.0 | 5.2 | 3.1 | 1.0 | 1.9 | --- | --- | --- |

05435935 BADGER MILL CREEK AT HIGHWAYS 18 & 151 AT MADISON, WI—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

| Day | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean |
|-------|----------|-----|------|-------|-----|------|-------|-----|------|-----|-----|------|
| | February | | | March | | | April | | | May | | |
| 1 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 3 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 6 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 7 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 9 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 10 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 11 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 12 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 14 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 15 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 16 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 17 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 18 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 19 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 20 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 21 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 22 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 23 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 24 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 25 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 26 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 27 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 28 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 29 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 30 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 31 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Month | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

05435935 BADGER MILL CREEK AT HIGHWAYS 18 & 151 AT MADISON, WI—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

| Day | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean |
|--------------|------|-----|------|------|-----|------|--------|-----|------|-----------|-----|------|
| | June | | | July | | | August | | | September | | |
| 1 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 3 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 6 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 7 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 9 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 10 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 11 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 12 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 14 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 15 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 16 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 17 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 18 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 19 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 20 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 21 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 22 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 23 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 24 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 25 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 26 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 27 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 28 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 29 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 30 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 31 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Month | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

05435935 BADGER MILL CREEK AT HIGHWAYS 18 & 151 AT MADISON, WI—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

| Day | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean |
|--------------|---------|-----|------|----------|-----|------|----------|-----|------|---------|-----|------|
| | October | | | November | | | December | | | January | | |
| 1 | 241 | 230 | 235 | 181 | 179 | 180 | 335 | 326 | 331 | 806 | 785 | 794 |
| 2 | 251 | 238 | 241 | 188 | 180 | 185 | 339 | 330 | 335 | 831 | 806 | 818 |
| 3 | 248 | 238 | 241 | 193 | 188 | 190 | 341 | 335 | 338 | 856 | 831 | 843 |
| 4 | 261 | 248 | 255 | 198 | 191 | 195 | 350 | 341 | 345 | 865 | 856 | 861 |
| 5 | 263 | 256 | 260 | 206 | 198 | 203 | 353 | 348 | 350 | 873 | 864 | 868 |
| 6 | 277 | 261 | 267 | 212 | 205 | 208 | 356 | 348 | 352 | 886 | 873 | 880 |
| 7 | 279 | 277 | 278 | 224 | 212 | 220 | 355 | 352 | 353 | 888 | 882 | 885 |
| 8 | 284 | 279 | 281 | 227 | 220 | 224 | 357 | 353 | 355 | 891 | 887 | 889 |
| 9 | 290 | 282 | 285 | 236 | 226 | 231 | 356 | 350 | 352 | 898 | 889 | 892 |
| 10 | 299 | 290 | 292 | 240 | 232 | 236 | 356 | 350 | 353 | 902 | 898 | 900 |
| 11 | 300 | 293 | 297 | 244 | 237 | 240 | 361 | 351 | 358 | 903 | 897 | 900 |
| 12 | 300 | 296 | 298 | 251 | 239 | 245 | 364 | 354 | 359 | 901 | 896 | 898 |
| 13 | 305 | 295 | 300 | 260 | 250 | 255 | 366 | 350 | 359 | 904 | 900 | 902 |
| 14 | 310 | 304 | 306 | 268 | 260 | 264 | 366 | 363 | 364 | 902 | 898 | 900 |
| 15 | 315 | 308 | 312 | 279 | 263 | 268 | 372 | 364 | 367 | 900 | 896 | 898 |
| 16 | 317 | 310 | 314 | 281 | 270 | 276 | 381 | 372 | 376 | 898 | 893 | 896 |
| 17 | 318 | 310 | 315 | 287 | 277 | 282 | 383 | 379 | 381 | 899 | 894 | 896 |
| 18 | 324 | 315 | 319 | 289 | 285 | 287 | 384 | 380 | 382 | 903 | 897 | 900 |
| 19 | 328 | 322 | 324 | 290 | 283 | 287 | 384 | 380 | 382 | 911 | 902 | 906 |
| 20 | 331 | 321 | 326 | 302 | 289 | 294 | 385 | 381 | 383 | 919 | 911 | 915 |
| 21 | 332 | 318 | 325 | 303 | 290 | 298 | 387 | 383 | 385 | 920 | 916 | 918 |
| 22 | 338 | 322 | 328 | 306 | 294 | 300 | 388 | 385 | 386 | 920 | 914 | 917 |
| 23 | 340 | 207 | 260 | 315 | 304 | 307 | 387 | 384 | 386 | 918 | 912 | 915 |
| 24 | 219 | 214 | 216 | 316 | 306 | 310 | 385 | 383 | 384 | 933 | 735 | 877 |
| 25 | 219 | 214 | 216 | 327 | 311 | 316 | 831 | 378 | 529 | 814 | 802 | 805 |
| 26 | 215 | 211 | 213 | 329 | 310 | 318 | 809 | 741 | 755 | 818 | 805 | 810 |
| 27 | 219 | 212 | 215 | 316 | 313 | 314 | 757 | 744 | 751 | 849 | 817 | 833 |
| 28 | 223 | 218 | 219 | 315 | 311 | 313 | 759 | 749 | 755 | 880 | 848 | 865 |
| 29 | 230 | 223 | 227 | 321 | 315 | 317 | 771 | 755 | 762 | 913 | 880 | 899 |
| 30 | 237 | 180 | 207 | 331 | 320 | 325 | 782 | 771 | 777 | 938 | 912 | 928 |
| 31 | 182 | 179 | 180 | --- | --- | --- | 786 | 780 | 783 | 951 | 938 | 944 |
| Month | 340 | 179 | 269 | 331 | 179 | 263 | 831 | 326 | 446 | 951 | 735 | 882 |

05435935 BADGER MILL CREEK AT HIGHWAYS 18 & 151 AT MADISON, WI—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

| Day | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean |
|-------|----------|-----|------|-------|-----|------|-------|-----|------|-----|-----|------|
| | February | | | March | | | April | | | May | | |
| 1 | 961 | 950 | 957 | 956 | 945 | 952 | 696 | 562 | 646 | 418 | 410 | 414 |
| 2 | 961 | 958 | 959 | 956 | 949 | 953 | 696 | 623 | 670 | 424 | 414 | 418 |
| 3 | 961 | 955 | 958 | 954 | 945 | 950 | 646 | 624 | 633 | 429 | 415 | 422 |
| 4 | 960 | 953 | 957 | 961 | 952 | 956 | 655 | 637 | 646 | 436 | 421 | 427 |
| 5 | 957 | 952 | 955 | 964 | 953 | 959 | 709 | 651 | 692 | 440 | 427 | 432 |
| 6 | 956 | 950 | 953 | 960 | 948 | 954 | 694 | 315 | 530 | 446 | 437 | 441 |
| 7 | 955 | 948 | 953 | 951 | 946 | 949 | 461 | 265 | 418 | 444 | 437 | 441 |
| 8 | 958 | 952 | 955 | 954 | 949 | 952 | 381 | 259 | 344 | 446 | 441 | 444 |
| 9 | 958 | 952 | 955 | 953 | 831 | 927 | 367 | 343 | 355 | 449 | 440 | 444 |
| 10 | 954 | 949 | 952 | 917 | 537 | 788 | 393 | 360 | 374 | 449 | 440 | 444 |
| 11 | 955 | 947 | 951 | 590 | 412 | 493 | 400 | 381 | 389 | 454 | 431 | 443 |
| 12 | 960 | 953 | 956 | 417 | 346 | 382 | 393 | 387 | 389 | 464 | 419 | 437 |
| 13 | 966 | 958 | 961 | 353 | 322 | 335 | 394 | 384 | 390 | 419 | 144 | 315 |
| 14 | 969 | 964 | 966 | 385 | 338 | 359 | 397 | 382 | 389 | 328 | 315 | 319 |
| 15 | 970 | 964 | 968 | 388 | 325 | 361 | 407 | 386 | 394 | 320 | 297 | 309 |
| 16 | 968 | 962 | 964 | 411 | 369 | 386 | 418 | 395 | 410 | 309 | 299 | 303 |
| 17 | 963 | 956 | 958 | 419 | 384 | 403 | 435 | 413 | 419 | 323 | 304 | 312 |
| 18 | 959 | 951 | 955 | 815 | 409 | 566 | 438 | 419 | 429 | 329 | 307 | 316 |
| 19 | 957 | 951 | 954 | 709 | 649 | 670 | 446 | 428 | 438 | 330 | 318 | 324 |
| 20 | 955 | 952 | 953 | 717 | 701 | 709 | 448 | 435 | 444 | 336 | 318 | 325 |
| 21 | 954 | 949 | 951 | 720 | 702 | 712 | 452 | 441 | 446 | 333 | 322 | 327 |
| 22 | 951 | 946 | 948 | 722 | 705 | 714 | 461 | 443 | 454 | 343 | 326 | 332 |
| 23 | 950 | 945 | 948 | 720 | 699 | 709 | 458 | 451 | 455 | 351 | 336 | 344 |
| 24 | 951 | 945 | 948 | 709 | 673 | 695 | 468 | 452 | 459 | 359 | 348 | 352 |
| 25 | 950 | 944 | 947 | 721 | 673 | 701 | 465 | 397 | 438 | 363 | 351 | 358 |
| 26 | 951 | 946 | 949 | 729 | 705 | 717 | 423 | 372 | 407 | 372 | 355 | 362 |
| 27 | 952 | 948 | 950 | 720 | 702 | 712 | 414 | 394 | 408 | 380 | 366 | 371 |
| 28 | 955 | 949 | 952 | 726 | 664 | 712 | 412 | 401 | 406 | 380 | 371 | 375 |
| 29 | --- | --- | --- | 726 | 700 | 714 | 414 | 383 | 396 | 382 | 373 | 378 |
| 30 | --- | --- | --- | 712 | 646 | 682 | 421 | 404 | 410 | 388 | 366 | 378 |
| 31 | --- | --- | --- | 716 | 666 | 698 | --- | --- | --- | 376 | 348 | 365 |
| Month | 970 | 944 | 955 | 964 | 322 | 702 | 709 | 259 | 456 | 464 | 144 | 377 |

05435935 BADGER MILL CREEK AT HIGHWAYS 18 & 151 AT MADISON, WI—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

| Day | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean |
|-------|------|-----|------|------|-----|------|--------|-----|------|-----------|-----|------|
| | June | | | July | | | August | | | September | | |
| 1 | 389 | 349 | 380 | 212 | 197 | 201 | 333 | 196 | 241 | 325 | 235 | 276 |
| 2 | 399 | 382 | 388 | 213 | 206 | 210 | 336 | 251 | 305 | 258 | 103 | 224 |
| 3 | 405 | 386 | 396 | 223 | 211 | 215 | 364 | 258 | 325 | 141 | 89 | 120 |
| 4 | 401 | 381 | 388 | 236 | 221 | 229 | 376 | 337 | 357 | 141 | 130 | 135 |
| 5 | 391 | 207 | 354 | 247 | 232 | 237 | 399 | 329 | 364 | 219 | 141 | 169 |
| 6 | 223 | 190 | 203 | 270 | 243 | 250 | 428 | 346 | 386 | 212 | 154 | 170 |
| 7 | 195 | 190 | 192 | 289 | 167 | 245 | 439 | 272 | 389 | 196 | 168 | 178 |
| 8 | 196 | 194 | 195 | 227 | 175 | 202 | 402 | 182 | 291 | 276 | 179 | 219 |
| 9 | 205 | 195 | 200 | 204 | 193 | 199 | 248 | 189 | 225 | 258 | 223 | 242 |
| 10 | 206 | 202 | 204 | 207 | 196 | 202 | 217 | 156 | 190 | 269 | 189 | 231 |
| 11 | 215 | 203 | 208 | 229 | 189 | 217 | 342 | 173 | 230 | 256 | 198 | 218 |
| 12 | 222 | 213 | 216 | 227 | 218 | 222 | 397 | 240 | 323 | 248 | 213 | 222 |
| 13 | 226 | 215 | 219 | 232 | 222 | 226 | 404 | 95 | 279 | 346 | 233 | 286 |
| 14 | 233 | 220 | 225 | 243 | 231 | 236 | 139 | 100 | 110 | 365 | 321 | 344 |
| 15 | 233 | 191 | 225 | 251 | 236 | 242 | 132 | 118 | 124 | 362 | 341 | 354 |
| 16 | 220 | 187 | 205 | 250 | 240 | 245 | 215 | 128 | 150 | 353 | 277 | 302 |
| 17 | 217 | 202 | 207 | 265 | 247 | 252 | 263 | 197 | 226 | 366 | 282 | 309 |
| 18 | 219 | 208 | 212 | 283 | 254 | 263 | 305 | 156 | 227 | 365 | 302 | 316 |
| 19 | 222 | 210 | 217 | 301 | 269 | 281 | 314 | 173 | 248 | 323 | 303 | 310 |
| 20 | 228 | 214 | 220 | 293 | 275 | 281 | 312 | 189 | 258 | 327 | 318 | 322 |
| 21 | 234 | 120 | 214 | 298 | 275 | 282 | 289 | 201 | 232 | 356 | 327 | 348 |
| 22 | 162 | 116 | 145 | 288 | 78 | 245 | 324 | 218 | 279 | 372 | 343 | 353 |
| 23 | --- | --- | --- | 119 | 87 | 106 | 338 | 279 | 313 | 373 | 350 | 364 |
| 24 | 159 | 145 | 150 | 121 | 110 | 116 | 334 | 261 | 301 | 386 | 371 | 380 |
| 25 | 166 | 153 | 160 | 131 | 120 | 125 | 329 | 264 | 297 | 390 | 383 | 386 |
| 26 | 176 | 159 | 171 | 323 | 130 | 191 | 371 | 324 | 347 | 398 | 389 | 392 |
| 27 | 184 | 173 | 178 | 347 | 185 | 260 | 377 | 283 | 341 | 403 | 391 | 396 |
| 28 | 188 | 178 | 183 | 375 | 213 | 302 | 382 | 295 | 364 | 411 | 400 | 404 |
| 29 | 197 | 187 | 191 | 364 | 308 | 336 | 386 | 304 | 364 | 435 | 402 | 418 |
| 30 | 201 | 192 | 196 | 355 | 302 | 332 | 387 | 320 | 373 | 442 | 422 | 430 |
| 31 | --- | --- | --- | 325 | 175 | 192 | 380 | 314 | 337 | --- | --- | --- |
| Month | --- | --- | --- | 375 | 78 | 230 | 439 | 95 | 284 | 442 | 89 | 294 |

05435935 BADGER MILL CREEK AT HIGHWAYS 18 & 151 AT MADISON, WI—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

| Day | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean |
|-------|---------|-----|------|----------|-----|------|----------|-----|------|---------|-----|------|
| | October | | | November | | | December | | | January | | |
| 1 | 453 | 426 | 442 | 361 | 313 | 323 | 564 | 536 | 552 | --- | --- | --- |
| 2 | 473 | 451 | 461 | 331 | 318 | 323 | 580 | 561 | 571 | --- | --- | --- |
| 3 | 476 | 467 | 472 | 342 | 330 | 336 | 581 | 572 | 577 | --- | --- | --- |
| 4 | 481 | 461 | 472 | 348 | 341 | 343 | 584 | 577 | 580 | --- | --- | --- |
| 5 | 490 | 472 | 479 | 356 | 347 | 351 | 582 | 575 | 578 | --- | --- | --- |
| 6 | 502 | 486 | 493 | 372 | 355 | 363 | 583 | 578 | 581 | --- | --- | --- |
| 7 | 502 | 481 | 493 | 382 | 372 | 377 | 589 | 583 | 585 | --- | --- | --- |
| 8 | 518 | 489 | 501 | 385 | 378 | 382 | 590 | 586 | 588 | --- | --- | --- |
| 9 | 518 | 482 | 502 | 388 | 380 | 385 | 595 | 588 | 591 | --- | --- | --- |
| 10 | 510 | 487 | 501 | 394 | 384 | 389 | 591 | 585 | 588 | --- | --- | --- |
| 11 | 510 | 478 | 497 | 413 | 393 | 401 | 589 | 584 | 586 | --- | --- | --- |
| 12 | 502 | 473 | 488 | 427 | 409 | 416 | 589 | 584 | 586 | --- | --- | --- |
| 13 | 518 | 478 | 497 | 429 | 418 | 425 | 597 | 588 | 591 | --- | --- | --- |
| 14 | 548 | 516 | 531 | 441 | 429 | 434 | 611 | 597 | 604 | --- | --- | --- |
| 15 | 551 | 536 | 545 | 454 | 436 | 444 | 619 | 610 | 616 | --- | --- | --- |
| 16 | 564 | 542 | 553 | 456 | 440 | 450 | 625 | 618 | 622 | --- | --- | --- |
| 17 | 571 | 547 | 562 | 456 | 448 | 452 | 634 | 625 | 630 | --- | --- | --- |
| 18 | 574 | 550 | 564 | 467 | 454 | 459 | 643 | 615 | 633 | --- | --- | --- |
| 19 | 590 | 562 | 575 | 484 | 466 | 476 | 653 | 641 | 647 | --- | --- | --- |
| 20 | 597 | 577 | 587 | 501 | 483 | 492 | 659 | 652 | 656 | --- | --- | --- |
| 21 | 607 | 583 | 596 | 510 | 486 | 496 | 662 | 657 | 660 | --- | --- | --- |
| 22 | 610 | 591 | 602 | 512 | 492 | 499 | 663 | 659 | 661 | --- | --- | --- |
| 23 | 614 | 596 | 606 | 517 | 504 | 511 | 666 | 660 | 663 | --- | --- | --- |
| 24 | 611 | 309 | 506 | 518 | 510 | 514 | 674 | 663 | 667 | --- | --- | --- |
| 25 | 394 | 301 | 339 | 527 | 515 | 519 | 674 | 665 | 668 | --- | --- | --- |
| 26 | 480 | 306 | 366 | 542 | 502 | 528 | 678 | 668 | 672 | --- | --- | --- |
| 27 | 308 | 294 | 301 | 551 | 541 | 546 | 680 | 671 | 675 | --- | --- | --- |
| 28 | 297 | 292 | 294 | 563 | 542 | 548 | 686 | 678 | 682 | --- | --- | --- |
| 29 | 298 | 292 | 295 | 561 | 538 | 546 | 695 | 685 | 688 | --- | --- | --- |
| 30 | 307 | 298 | 303 | 562 | 534 | 545 | 697 | 690 | 693 | --- | --- | --- |
| 31 | 337 | 307 | 315 | --- | --- | --- | 792 | 692 | 722 | --- | --- | --- |
| Month | 614 | 292 | 475 | 563 | 313 | 442 | 792 | 536 | 626 | --- | --- | --- |

05435935 BADGER MILL CREEK AT HIGHWAYS 18 & 151 AT MADISON, WI—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

| Day | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean |
|-------|----------|-----|------|-------|-----|------|-------|-----|------|-----|-----|------|
| | February | | | March | | | April | | | May | | |
| 1 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 3 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 6 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 7 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 9 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 10 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 11 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 12 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 14 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 15 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 16 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 17 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 18 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 19 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 20 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 21 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 22 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 23 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 24 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 25 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 26 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 27 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 28 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 29 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 30 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 31 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Month | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

05435935 BADGER MILL CREEK AT HIGHWAYS 18 & 151 AT MADISON, WI—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

| Day | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean |
|--------------|------|-----|------|------|-----|------|--------|-----|------|-----------|-----|------|
| | June | | | July | | | August | | | September | | |
| 1 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 3 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 6 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 7 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 9 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 10 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 11 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 12 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 14 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 15 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 16 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 17 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 18 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 19 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 20 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 21 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 22 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 23 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 24 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 25 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 26 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 27 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 28 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 29 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 30 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 31 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Month | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

05435935 BADGER MILL CREEK AT HIGHWAYS 18 & 151 AT MADISON, WI—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 1 of 3

[CaCO₃, calcium carbonate; MF, membrane filter; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; P, phosphorus; col/100 mL, colonies per 100 milliliters; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; <, less than; >, greater than]

| Date | Sample start time | Barometric pressure, mm Hg (00025) | Discharge, instantaneous, ft ³ /s (00061) | Dissolved oxygen, water, unfiltered, mg/L (00300) | pH, water, unfiltered, field, standard units (00400) | Specific conductance, water, unfiltered, μS/cm at 25 °C (00095) | Temperature, water, °C (00010) | Sample purpose (71999) | Sampler type (84164) |
|------------|-------------------|------------------------------------|--|---|--|---|--------------------------------|------------------------|----------------------|
| 10-23-2009 | 1225 | 736 | 26 | 10.4 | 7.9 | 226 | 8.5 | Routine | Grab sample |
| 03-11-2010 | 1405 | 739 | 15 | 11.3 | 7.2 | 449 | .6 | Routine | Grab sample |
| 04-08-2010 | 1100 | 742 | 21 | 12.4 | 7.5 | 351 | 8.1 | Routine | Grab sample |
| 05-13-2010 | 1040 | 748 | 38 | 9.7 | 8.0 | 255 | 9.9 | Routine | Grab sample |

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 2 of 3

[CaCO₃, calcium carbonate; MF, membrane filter; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; P, phosphorus; col/100 mL, colonies per 100 milliliters; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; <, less than; >, greater than]

| Date | Sampling method (82398) | Purpose, site visit (50280) | Hardness, water, mg/L as CaCO ₃ (00900) | Calcium, water, filtered, mg/L (00915) | Magnesium, water, filtered, mg/L (00925) | Ammonia, water, filtered, mg/L as N (00608) | Phosphorus, water, unfiltered, mg/L as P (00665) | Escherichia coli, Defined Substrate Technology, water, MPN/100 mL (50468) |
|------------|-------------------------|-----------------------------|--|--|--|---|--|---|
| 10-23-2009 | Grab sample(dip) | Fixed frequency SW | 96 | 21.7 | 10.3 | .043 | .209 | > 2,400 |
| 03-11-2010 | Grab sample(dip) | Fixed frequency SW | 86 | 20.0 | 8.83 | .350 | .247 | 1,100 |
| 04-08-2010 | Grab sample(dip) | Fixed frequency SW | 81 | 17.6 | 8.92 | .199 | .164 | 520 |
| 05-13-2010 | Grab sample(dip) | Fixed frequency SW | 82 | 18.2 | 8.94 | .074 | .132 | 1,700 |

05435935 BADGER MILL CREEK AT HIGHWAYS 18 & 151 AT MADISON, WI—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 3 of 3

[CaCO₃, calcium carbonate; MF, membrane filter; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; P, phosphorus; col/100 mL, colonies per 100 milliliters; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; <, less than; >, greater than]

| Date | Fecal coliform, M-FC MF (0.45 micron) method, water, col/100 mL (31616) | Cadmium, water, filtered, μg/L (01025) | Chromium, water, filtered, μg/L (01030) | Copper, water, unfiltered, recoverable, μg/L (01042) | Lead, water, filtered, μg/L (01049) | Zinc, water, filtered, μg/L (01090) | Suspended sediment concentration, mg/L (80154) |
|------------|---|--|---|--|-------------------------------------|-------------------------------------|--|
| 10-23-2009 | 40 | < .200 | .715 | 2.10 | .519 | 5.59 | 12 |
| 03-11-2010 | 10 | < .200 | 1.61 | 3.83 | 1.15 | 10 | 8 |
| 04-08-2010 | 30 | < .100 | 2.37 | 3.21 | 1.32 | 8.78 | 15 |
| 05-13-2010 | 200 | < .100 | 1.03 | 2.14 | .770 | 5.65 | 16 |

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 1 of 3

[CaCO₃, calcium carbonate; MF, membrane filter; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; P, phosphorus; col/100 mL, colonies per 100 milliliters; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; <, less than]

| Date | Sample start time | Barometric pressure, mm Hg (00025) | Discharge, instantaneous, ft ³ /s (00061) | Dissolved oxygen, water, unfiltered, mg/L (00300) | pH, water, unfiltered, field, standard units (00400) | Specific conductance, water, unfiltered, μS/cm at 25 °C (00095) | Temperature, water, °C (00010) | Sample purpose (71999) | Sampler type (84164) |
|------------|-------------------|------------------------------------|--|---|--|---|--------------------------------|------------------------|----------------------|
| 10-26-2010 | 1200 | 711 | 49 | 7.0 | 7.8 | 366 | 14.3 | Routine | Grab sample |

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 2 of 3

[CaCO₃, calcium carbonate; MF, membrane filter; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; P, phosphorus; col/100 mL, colonies per 100 milliliters; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; <, less than]

| Date | Sampling method (82398) | Purpose, site visit (50280) | Hardness, water, mg/L as CaCO ₃ (00900) | Calcium, water, filtered, mg/L (00915) | Magnesium, water, filtered, mg/L (00925) | Ammonia, water, filtered, mg/L as N (00608) | Phosphorus, water, unfiltered, mg/L as P (00665) | Escherichia coli, Defined Substrate Technology, water, MPN/100 mL (50468) |
|------------|-------------------------|-----------------------------|--|--|--|---|--|---|
| 10-26-2010 | Grab sample(dip) | Fixed frequency SW | 120 | 25.8 | 14.4 | .057 | .280 | 7,700 |

05435935 BADGER MILL CREEK AT HIGHWAYS 18 & 151 AT MADISON, WI—Continued**WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

Part 3 of 3

[CaCO₃, calcium carbonate; MF, membrane filter; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; P, phosphorus; col/100 mL, colonies per 100 milliliters; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; <, less than]

| Date | Fecal coliform, M-FC MF (0.45 micron) method, water, col/100 mL (31616) | Cadmium, water, filtered, μg/L (01025) | Chromium, water, filtered, μg/L (01030) | Copper, water, unfiltered, recover- able, μg/L (01042) | Lead, water, filtered, μg/L (01049) | Zinc, water, filtered, μg/L (01090) | Suspended sediment concen- tration, mg/L (80154) |
|-------------------|--|---|--|---|--|--|---|
| 10-26-2010 | 240 | .258 | < .812 | 3.22 | 1.11 | 7.36 | 20 |