

## 02087588 LAKE WHEELER ON SWIFT CREEK NEAR RALEIGH, NC

Neuse Basin  
Upper Neuse Subbasin

LOCATION.--Lat 35°41'40", long 78°41'38" referenced to North American Datum of 1983, Wake County, NC, Hydrologic Unit 03020201, 0.05 mi above dam, 6.8 mi southwest of Raleigh.

DRAINAGE AREA.--35.8 mi<sup>2</sup>.

### WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2005 to current year.

REMARKS.--Station operated to define water quality as part of a regional surface-water quality assessment. Samples for nutrient, chlorophyll *a* and pheophytin *a* analyses were collected through a sampling zone equal to double the secchi disk depth using the depth-integration sampling technique. Prior to October 1, 2005, samples for chlorophyll *a* were analyzed using a high-performance liquid chromatography method.

### WATER-QUALITY DATA WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 1 of 5

[QC, quality control sample. Remark codes: <, less than; E, estimated.]

| Date       | Time | Sample medium and type        | Color,<br>water,<br>ftrd,<br>Pt-Co<br>units<br>(00080) | Sam-<br>pling<br>depth,<br>meters<br>(00098) | Trans-<br>parency<br>Secchi<br>disc,<br>meters<br>(00078) | Baro-<br>metric<br>pres-<br>sure,<br>mm Hg<br>(00025) | Dis-<br>solved<br>oxygen,<br>mg/L<br>(00300) | Dis-<br>solved<br>oxygen,<br>percent<br>of sat-<br>uration<br>(00301) | pH,<br>water,<br>unftrd<br>field,<br>std<br>units<br>(00400) |
|------------|------|-------------------------------|--------------------------------------------------------|----------------------------------------------|-----------------------------------------------------------|-------------------------------------------------------|----------------------------------------------|-----------------------------------------------------------------------|--------------------------------------------------------------|
| <b>Nov</b> |      |                               |                                                        |                                              |                                                           |                                                       |                                              |                                                                       |                                                              |
| 01...      | 0930 | Surface water, regular        | 30                                                     | 1.0                                          | .80                                                       | 761                                                   | 4.8                                          | 51                                                                    | 6.9                                                          |
| 01...      | 0931 | QC - Surface water, replicate | --                                                     | --                                           | .80                                                       | --                                                    | --                                           | --                                                                    | --                                                           |
| 01...      | 0932 | QC - Surface water, replicate | --                                                     | --                                           | .80                                                       | --                                                    | --                                           | --                                                                    | --                                                           |
| 01...      | 0935 | Surface water, regular        | --                                                     | 3.0                                          | --                                                        | 761                                                   | 4.7                                          | 50                                                                    | 6.9                                                          |
| 01...      | 0940 | Surface water, regular        | --                                                     | 6.0                                          | --                                                        | 761                                                   | 4.8                                          | 51                                                                    | 7.0                                                          |
| 01...      | 1424 | QC - Artificial, blank        | --                                                     | --                                           | --                                                        | --                                                    | --                                           | --                                                                    | --                                                           |
| <b>Apr</b> |      |                               |                                                        |                                              |                                                           |                                                       |                                              |                                                                       |                                                              |
| 28...      | 0915 | Surface water, regular        | --                                                     | 2.4                                          | 1.20                                                      | --                                                    | --                                           | --                                                                    | --                                                           |
| 28...      | 0916 | QC - Surface water, replicate | --                                                     | 2.4                                          | --                                                        | --                                                    | --                                           | --                                                                    | --                                                           |
| 28...      | 0920 | Surface water, regular        | 25                                                     | 1.0                                          | --                                                        | 755                                                   | 8.9                                          | 103                                                                   | 7.3                                                          |
| 28...      | 0921 | QC - Surface water, replicate | 15                                                     | 1.0                                          | --                                                        | --                                                    | --                                           | --                                                                    | --                                                           |
| 28...      | 0925 | Surface water, regular        | --                                                     | 3.0                                          | --                                                        | 755                                                   | 5.5                                          | 59                                                                    | 6.6                                                          |
| 28...      | 0930 | Surface water, regular        | --                                                     | 6.0                                          | --                                                        | 755                                                   | .3                                           | 4                                                                     | 6.5                                                          |
| 28...      | 1034 | QC - Artificial, blank        | --                                                     | --                                           | --                                                        | --                                                    | --                                           | --                                                                    | --                                                           |
| <b>Jun</b> |      |                               |                                                        |                                              |                                                           |                                                       |                                              |                                                                       |                                                              |
| 25...      | 1000 | Surface water, regular        | --                                                     | 2.2                                          | 1.10                                                      | --                                                    | --                                           | --                                                                    | --                                                           |
| 25...      | 1005 | Surface water, regular        | 40                                                     | 1.0                                          | --                                                        | 765                                                   | 9.0                                          | 115                                                                   | 9.0                                                          |
| 25...      | 1010 | Surface water, regular        | --                                                     | 3.0                                          | --                                                        | 765                                                   | 2.5                                          | 31                                                                    | 6.8                                                          |
| 25...      | 1015 | Surface water, regular        | --                                                     | 5.0                                          | --                                                        | 765                                                   | .3                                           | 4                                                                     | 6.9                                                          |
| <b>Aug</b> |      |                               |                                                        |                                              |                                                           |                                                       |                                              |                                                                       |                                                              |
| 21...      | 0915 | Surface water, regular        | --                                                     | 1.8                                          | .90                                                       | --                                                    | --                                           | --                                                                    | --                                                           |
| 21...      | 0920 | Surface water, regular        | 30                                                     | 1.0                                          | --                                                        | 762                                                   | 5.9                                          | 74                                                                    | 7.4                                                          |
| 21...      | 0925 | Surface water, regular        | --                                                     | 3.0                                          | --                                                        | 762                                                   | 1.4                                          | 17                                                                    | 6.9                                                          |
| 21...      | 0930 | Surface water, regular        | --                                                     | 6.0                                          | --                                                        | 762                                                   | .2                                           | 2                                                                     | 7.2                                                          |

## 02087588 LAKE WHEELER ON SWIFT CREEK NEAR RALEIGH, NC—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 2 of 5

[QC, quality control sample. Remark codes: &lt;, less than; E, estimated.]

| Date       | Specific<br>conductance,<br>wat unf<br>μS/cm<br>25 degC<br>(00095) | Temperature,<br>water,<br>deg C<br>(00010) | Hard-<br>ness,<br>water,<br>mg/L as<br>CaCO3<br>(00900) | Calcium<br>water,<br>flttd,<br>mg/L<br>(00915) | Magnesium,<br>water,<br>flttd,<br>mg/L<br>(00925) | Potassium,<br>water,<br>flttd,<br>mg/L<br>(00935) | Sodium,<br>water,<br>flttd,<br>mg/L<br>(00930) | ANC,<br>wat unf<br>infl pt<br>titr.,<br>field,<br>mg/L as<br>CaCO3<br>(00419) | Bicarbonate,<br>wat unf<br>infl pt<br>titr.,<br>field,<br>mg/L<br>(00450) | Chloride,<br>water,<br>flttd,<br>mg/L<br>(00940) | Fluoride,<br>water,<br>flttd,<br>mg/L<br>(00950) | Silica,<br>water,<br>flttd,<br>mg/L as<br>SiO2<br>(00955) | Sulfate<br>water,<br>flttd,<br>mg/L<br>(00945) |
|------------|--------------------------------------------------------------------|--------------------------------------------|---------------------------------------------------------|------------------------------------------------|---------------------------------------------------|---------------------------------------------------|------------------------------------------------|-------------------------------------------------------------------------------|---------------------------------------------------------------------------|--------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------|------------------------------------------------|
| <b>Nov</b> |                                                                    |                                            |                                                         |                                                |                                                   |                                                   |                                                |                                                                               |                                                                           |                                                  |                                                  |                                                           |                                                |
| 01...      | 79                                                                 | 18.1                                       | 23                                                      | 6.11                                           | 1.95                                              | 2.92                                              | 4.65                                           | 23                                                                            | 29                                                                        | 5.20                                             | E.09                                             | 6.38                                                      | 3.63                                           |
| 01...      | --                                                                 | --                                         | --                                                      | --                                             | --                                                | --                                                | --                                             | --                                                                            | --                                                                        | --                                               | --                                               | --                                                        | --                                             |
| 01...      | --                                                                 | --                                         | --                                                      | --                                             | --                                                | --                                                | --                                             | --                                                                            | --                                                                        | --                                               | --                                               | --                                                        | --                                             |
| 01...      | 79                                                                 | 18.1                                       | --                                                      | --                                             | --                                                | --                                                | --                                             | --                                                                            | --                                                                        | --                                               | --                                               | --                                                        | --                                             |
| 01...      | 79                                                                 | 18.1                                       | --                                                      | --                                             | --                                                | --                                                | --                                             | --                                                                            | --                                                                        | --                                               | --                                               | --                                                        | 3.66                                           |
| 01...      | --                                                                 | --                                         | --                                                      | --                                             | --                                                | --                                                | --                                             | --                                                                            | --                                                                        | --                                               | --                                               | --                                                        | --                                             |
| <b>Apr</b> |                                                                    |                                            |                                                         |                                                |                                                   |                                                   |                                                |                                                                               |                                                                           |                                                  |                                                  |                                                           |                                                |
| 28...      | --                                                                 | --                                         | --                                                      | --                                             | --                                                | --                                                | --                                             | --                                                                            | --                                                                        | --                                               | --                                               | --                                                        | --                                             |
| 28...      | --                                                                 | --                                         | --                                                      | --                                             | --                                                | --                                                | --                                             | --                                                                            | --                                                                        | --                                               | --                                               | --                                                        | --                                             |
| 28...      | 72                                                                 | 22.1                                       | 18                                                      | 4.66                                           | 1.56                                              | 2.25                                              | 4.71                                           | 14                                                                            | 18                                                                        | 6.09                                             | E.06                                             | 6.95                                                      | 6.79                                           |
| 28...      | --                                                                 | --                                         | 18                                                      | 4.61                                           | 1.54                                              | 2.24                                              | 4.76                                           | 14                                                                            | 18                                                                        | 6.05                                             | <.12                                             | 6.91                                                      | 6.77                                           |
| 28...      | 74                                                                 | 18.4                                       | --                                                      | --                                             | --                                                | --                                                | --                                             | --                                                                            | --                                                                        | --                                               | --                                               | --                                                        | --                                             |
| 28...      | 80                                                                 | 15.5                                       | --                                                      | --                                             | --                                                | --                                                | --                                             | --                                                                            | --                                                                        | --                                               | --                                               | --                                                        | 6.90                                           |
| 28...      | --                                                                 | --                                         | --                                                      | <.04                                           | <.020                                             | <.02                                              | E.07                                           | --                                                                            | --                                                                        | <.12                                             | <.12                                             | .08                                                       | <.18                                           |
| <b>Jun</b> |                                                                    |                                            |                                                         |                                                |                                                   |                                                   |                                                |                                                                               |                                                                           |                                                  |                                                  |                                                           |                                                |
| 25...      | --                                                                 | --                                         | --                                                      | --                                             | --                                                | --                                                | --                                             | --                                                                            | --                                                                        | --                                               | --                                               | --                                                        | --                                             |
| 25...      | 81                                                                 | 28.5                                       | 22                                                      | 5.69                                           | 1.95                                              | 2.67                                              | 5.05                                           | 21                                                                            | 24                                                                        | 6.01                                             | E.07                                             | 6.20                                                      | 5.63                                           |
| 25...      | 79                                                                 | 26.6                                       | --                                                      | --                                             | --                                                | --                                                | --                                             | --                                                                            | --                                                                        | --                                               | --                                               | --                                                        | --                                             |
| 25...      | 119                                                                | 21.0                                       | --                                                      | --                                             | --                                                | --                                                | --                                             | --                                                                            | --                                                                        | --                                               | --                                               | --                                                        | 2.13                                           |
| <b>Aug</b> |                                                                    |                                            |                                                         |                                                |                                                   |                                                   |                                                |                                                                               |                                                                           |                                                  |                                                  |                                                           |                                                |
| 21...      | --                                                                 | --                                         | --                                                      | --                                             | --                                                | --                                                | --                                             | --                                                                            | --                                                                        | --                                               | --                                               | --                                                        | --                                             |
| 21...      | 84                                                                 | 26.6                                       | 26                                                      | 6.79                                           | 2.14                                              | 3.01                                              | 5.41                                           | 24.3                                                                          | 29.6                                                                      | 5.93                                             | E.11                                             | 7.33                                                      | 4.01                                           |
| 21...      | 84                                                                 | 26.4                                       | --                                                      | --                                             | --                                                | --                                                | --                                             | --                                                                            | --                                                                        | --                                               | --                                               | --                                                        | --                                             |
| 21...      | 243                                                                | 20.6                                       | --                                                      | --                                             | --                                                | --                                                | --                                             | --                                                                            | --                                                                        | --                                               | --                                               | --                                                        | 1.23                                           |

## 02087588 LAKE WHEELER ON SWIFT CREEK NEAR RALEIGH, NC—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 3 of 5

[QC, quality control sample. Remark codes: &lt;, less than; E, estimated.]

| Date       | Residue<br>on<br>evap.<br>at<br>180degC<br>wat flt<br>mg/L<br>(70300) | Ammonia<br>+<br>org-N,<br>water,<br>unfltrd<br>mg/L<br>as N<br>(00625) | Ammonia<br>water,<br>fltrd,<br>mg/L<br>as N<br>(00608) | Nitrate<br>+<br>nitrite<br>water,<br>fltrd,<br>mg/L<br>as N<br>(00631) | Nitrite<br>water,<br>fltrd,<br>mg/L<br>as N<br>(00613) | Ortho-<br>phos-<br>phate,<br>water,<br>fltrd,<br>mg/L<br>as P<br>(00671) | Phos-<br>phorus,<br>water,<br>unfltrd<br>mg/L<br>as P<br>(00665) | Organic<br>carbon,<br>water,<br>fltrd,<br>mg/L<br>(00681) | Organic<br>carbon,<br>water,<br>unfltrd<br>mg/L<br>(00680) | Chloro-<br>phyll a<br>phyto-<br>plank-<br>ton,<br>fluoro,<br>µg/L<br>(70953) | Pheo-<br>phytin<br>a,<br>phyto-<br>plank-<br>ton,<br>µg/L<br>(62360) | Alum-<br>inum,<br>water,<br>unfltrd<br>recover-<br>able,<br>µg/L<br>(01105) | Arsenic<br>water,<br>unfltrd<br>µg/L<br>(01002) |
|------------|-----------------------------------------------------------------------|------------------------------------------------------------------------|--------------------------------------------------------|------------------------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------------------------|------------------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------|
| <b>Nov</b> |                                                                       |                                                                        |                                                        |                                                                        |                                                        |                                                                          |                                                                  |                                                           |                                                            |                                                                              |                                                                      |                                                                             |                                                 |
| 01...      | 57                                                                    | .81                                                                    | .218                                                   | .069                                                                   | .003                                                   | E.003                                                                    | .044                                                             | 5.5                                                       | 6.9                                                        | 9.5                                                                          | 7.7                                                                  | 86                                                                          | 1.1                                             |
| 01...      | --                                                                    | --                                                                     | --                                                     | --                                                                     | --                                                     | --                                                                       | --                                                               | --                                                        | --                                                         | 9.0                                                                          | 7.1                                                                  | --                                                                          | --                                              |
| 01...      | --                                                                    | --                                                                     | --                                                     | --                                                                     | --                                                     | --                                                                       | --                                                               | --                                                        | --                                                         | 7.7                                                                          | 6.3                                                                  | --                                                                          | --                                              |
| 01...      | --                                                                    | .94                                                                    | .224                                                   | .071                                                                   | .003                                                   | E.003                                                                    | .045                                                             | --                                                        | --                                                         | --                                                                           | --                                                                   | --                                                                          | --                                              |
| 01...      | --                                                                    | .83                                                                    | .224                                                   | .069                                                                   | .003                                                   | <.006                                                                    | .045                                                             | 5.6                                                       | --                                                         | --                                                                           | --                                                                   | --                                                                          | --                                              |
| 01...      | --                                                                    | --                                                                     | <.020                                                  | <.016                                                                  | <.002                                                  | <.006                                                                    | --                                                               | --                                                        | --                                                         | --                                                                           | --                                                                   | --                                                                          | --                                              |
| <b>Apr</b> |                                                                       |                                                                        |                                                        |                                                                        |                                                        |                                                                          |                                                                  |                                                           |                                                            |                                                                              |                                                                      |                                                                             |                                                 |
| 28...      | --                                                                    | .52                                                                    | <.020                                                  | <.016                                                                  | <.002                                                  | <.006                                                                    | .029                                                             | --                                                        | --                                                         | 10.6                                                                         | 4.6                                                                  | --                                                                          | --                                              |
| 28...      | --                                                                    | .54                                                                    | <.020                                                  | <.016                                                                  | <.002                                                  | E.003                                                                    | .031                                                             | --                                                        | --                                                         | 10.2                                                                         | 4.7                                                                  | --                                                                          | --                                              |
| 28...      | 58                                                                    | --                                                                     | --                                                     | --                                                                     | --                                                     | --                                                                       | --                                                               | 4.8                                                       | 7.0                                                        | --                                                                           | --                                                                   | 26                                                                          | E.56                                            |
| 28...      | 59                                                                    | --                                                                     | --                                                     | --                                                                     | --                                                     | --                                                                       | --                                                               | 4.7                                                       | 7.0                                                        | --                                                                           | --                                                                   | 27                                                                          | E.58                                            |
| 28...      | --                                                                    | .52                                                                    | <.020                                                  | <.016                                                                  | <.002                                                  | E.004                                                                    | .032                                                             | --                                                        | --                                                         | --                                                                           | --                                                                   | --                                                                          | --                                              |
| 28...      | --                                                                    | .56                                                                    | .073                                                   | <.016                                                                  | E.001                                                  | E.003                                                                    | .040                                                             | 4.7                                                       | --                                                         | --                                                                           | --                                                                   | --                                                                          | --                                              |
| 28...      | --                                                                    | --                                                                     | <.020                                                  | <.016                                                                  | <.002                                                  | <.006                                                                    | --                                                               | .5                                                        | --                                                         | --                                                                           | --                                                                   | --                                                                          | --                                              |
| <b>Jun</b> |                                                                       |                                                                        |                                                        |                                                                        |                                                        |                                                                          |                                                                  |                                                           |                                                            |                                                                              |                                                                      |                                                                             |                                                 |
| 25...      | --                                                                    | .66                                                                    | <.020                                                  | <.016                                                                  | <.002                                                  | E.003                                                                    | .034                                                             | --                                                        | --                                                         | --                                                                           | --                                                                   | --                                                                          | --                                              |
| 25...      | 60                                                                    | --                                                                     | --                                                     | --                                                                     | --                                                     | --                                                                       | --                                                               | 6.0                                                       | 8.6                                                        | --                                                                           | --                                                                   | --                                                                          | --                                              |
| 25...      | --                                                                    | .59                                                                    | <.020                                                  | <.016                                                                  | <.002                                                  | E.004                                                                    | .031                                                             | --                                                        | --                                                         | --                                                                           | --                                                                   | --                                                                          | --                                              |
| 25...      | --                                                                    | .96                                                                    | .306                                                   | <.016                                                                  | E.002                                                  | E.004                                                                    | .047                                                             | 7.0                                                       | --                                                         | --                                                                           | --                                                                   | --                                                                          | --                                              |
| <b>Aug</b> |                                                                       |                                                                        |                                                        |                                                                        |                                                        |                                                                          |                                                                  |                                                           |                                                            |                                                                              |                                                                      |                                                                             |                                                 |
| 21...      | --                                                                    | .71                                                                    | <.020                                                  | <.016                                                                  | <.002                                                  | E.004                                                                    | .034                                                             | --                                                        | --                                                         | 34.9                                                                         | 13.3                                                                 | --                                                                          | --                                              |
| 21...      | 66                                                                    | --                                                                     | --                                                     | --                                                                     | --                                                     | --                                                                       | --                                                               | 5.6                                                       | 8.4                                                        | --                                                                           | --                                                                   | --                                                                          | --                                              |
| 21...      | --                                                                    | .66                                                                    | E.013                                                  | <.016                                                                  | <.002                                                  | E.005                                                                    | .034                                                             | --                                                        | --                                                         | --                                                                           | --                                                                   | --                                                                          | --                                              |
| 21...      | --                                                                    | 1.9                                                                    | 1.11                                                   | <.016                                                                  | E.001                                                  | E.004                                                                    | .053                                                             | 6.6                                                       | --                                                         | --                                                                           | --                                                                   | --                                                                          | --                                              |

## 02087588 LAKE WHEELER ON SWIFT CREEK NEAR RALEIGH, NC—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 4 of 5

[QC, quality control sample. Remark codes: &lt;, less than; E, estimated.]

| Date       | Cadmium<br>water,<br>unfltrd<br>μg/L<br>(01027) | Chrom-<br>ium,<br>water,<br>unfltrd<br>recover-<br>able,<br>μg/L<br>(01034) | Cobalt<br>water,<br>unfltrd<br>recover-<br>able,<br>μg/L<br>(01037) | Copper,<br>water,<br>unfltrd<br>recover-<br>able,<br>μg/L<br>(01042) | Iron,<br>water,<br>unfltrd<br>recover-<br>able,<br>μg/L<br>(01045) | Lead,<br>water,<br>unfltrd<br>recover-<br>able,<br>μg/L<br>(01051) | Mangan-<br>ese,<br>water,<br>unfltrd<br>recover-<br>able,<br>μg/L<br>(01055) | Mercury<br>water,<br>unfltrd<br>ftrd,<br>μg/L<br>(71890) | Mercury<br>water,<br>unfltrd<br>recover-<br>able,<br>μg/L<br>(71900) | Molyb-<br>denum,<br>water,<br>unfltrd<br>recover-<br>able,<br>μg/L<br>(01062) | Nickel,<br>water,<br>unfltrd<br>recover-<br>able,<br>μg/L<br>(01067) | Selen-<br>ium,<br>water,<br>unfltrd<br>μg/L<br>(01147) | Silver,<br>water,<br>unfltrd<br>recover-<br>able,<br>μg/L<br>(01077) |
|------------|-------------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|------------------------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------------------|
| <b>Nov</b> |                                                 |                                                                             |                                                                     |                                                                      |                                                                    |                                                                    |                                                                              |                                                          |                                                                      |                                                                               |                                                                      |                                                        |                                                                      |
| 01...      | <.01                                            | <.40                                                                        | .15                                                                 | <1.2                                                                 | 355                                                                | .14                                                                | 230                                                                          | <.010                                                    | <.010                                                                | .3                                                                            | .21                                                                  | .13                                                    | <.02                                                                 |
| 01...      | --                                              | --                                                                          | --                                                                  | --                                                                   | --                                                                 | --                                                                 | --                                                                           | --                                                       | --                                                                   | --                                                                            | --                                                                   | --                                                     | --                                                                   |
| 01...      | --                                              | --                                                                          | --                                                                  | --                                                                   | --                                                                 | --                                                                 | --                                                                           | --                                                       | --                                                                   | --                                                                            | --                                                                   | --                                                     | --                                                                   |
| 01...      | --                                              | --                                                                          | --                                                                  | --                                                                   | 359                                                                | --                                                                 | 261                                                                          | --                                                       | --                                                                   | --                                                                            | --                                                                   | --                                                     | --                                                                   |
| 01...      | --                                              | --                                                                          | --                                                                  | --                                                                   | 347                                                                | --                                                                 | 254                                                                          | <.010                                                    | <.010                                                                | --                                                                            | --                                                                   | --                                                     | --                                                                   |
| 01...      | --                                              | --                                                                          | --                                                                  | --                                                                   | --                                                                 | --                                                                 | --                                                                           | --                                                       | --                                                                   | --                                                                            | --                                                                   | --                                                     | --                                                                   |
| <b>Apr</b> |                                                 |                                                                             |                                                                     |                                                                      |                                                                    |                                                                    |                                                                              |                                                          |                                                                      |                                                                               |                                                                      |                                                        |                                                                      |
| 28...      | --                                              | --                                                                          | --                                                                  | --                                                                   | --                                                                 | --                                                                 | --                                                                           | --                                                       | --                                                                   | --                                                                            | --                                                                   | --                                                     | --                                                                   |
| 28...      | --                                              | --                                                                          | --                                                                  | --                                                                   | --                                                                 | --                                                                 | --                                                                           | --                                                       | --                                                                   | --                                                                            | --                                                                   | --                                                     | --                                                                   |
| 28...      | <.01                                            | E.23                                                                        | .18                                                                 | 1.5                                                                  | 118                                                                | .10                                                                | 54.1                                                                         | <.010                                                    | <.010                                                                | .1                                                                            | .29                                                                  | .10                                                    | <.02                                                                 |
| 28...      | <.01                                            | E.25                                                                        | .05                                                                 | E.85                                                                 | 115                                                                | .07                                                                | 54.4                                                                         | <.010                                                    | <.010                                                                | .1                                                                            | .29                                                                  | .12                                                    | <.02                                                                 |
| 28...      | --                                              | --                                                                          | --                                                                  | --                                                                   | 147                                                                | --                                                                 | 72.7                                                                         | --                                                       | --                                                                   | --                                                                            | --                                                                   | --                                                     | --                                                                   |
| 28...      | --                                              | --                                                                          | --                                                                  | --                                                                   | 558                                                                | --                                                                 | 637                                                                          | <.010                                                    | <.010                                                                | --                                                                            | --                                                                   | --                                                     | --                                                                   |
| 28...      | --                                              | --                                                                          | --                                                                  | --                                                                   | --                                                                 | --                                                                 | --                                                                           | <.010                                                    | <.010                                                                | --                                                                            | --                                                                   | --                                                     | --                                                                   |
| <b>Jun</b> |                                                 |                                                                             |                                                                     |                                                                      |                                                                    |                                                                    |                                                                              |                                                          |                                                                      |                                                                               |                                                                      |                                                        |                                                                      |
| 25...      | --                                              | --                                                                          | --                                                                  | --                                                                   | --                                                                 | --                                                                 | --                                                                           | --                                                       | --                                                                   | --                                                                            | --                                                                   | --                                                     | --                                                                   |
| 25...      | --                                              | --                                                                          | --                                                                  | --                                                                   | 113                                                                | --                                                                 | 86.9                                                                         | <.010                                                    | <.010                                                                | --                                                                            | --                                                                   | --                                                     | --                                                                   |
| 25...      | --                                              | --                                                                          | --                                                                  | --                                                                   | 149                                                                | --                                                                 | 198                                                                          | --                                                       | --                                                                   | --                                                                            | --                                                                   | --                                                     | --                                                                   |
| 25...      | --                                              | --                                                                          | --                                                                  | --                                                                   | 6,030                                                              | --                                                                 | 2,460                                                                        | <.010                                                    | <.010                                                                | --                                                                            | --                                                                   | --                                                     | --                                                                   |
| <b>Aug</b> |                                                 |                                                                             |                                                                     |                                                                      |                                                                    |                                                                    |                                                                              |                                                          |                                                                      |                                                                               |                                                                      |                                                        |                                                                      |
| 21...      | --                                              | --                                                                          | --                                                                  | --                                                                   | --                                                                 | --                                                                 | --                                                                           | --                                                       | --                                                                   | --                                                                            | --                                                                   | --                                                     | --                                                                   |
| 21...      | --                                              | --                                                                          | --                                                                  | --                                                                   | 175                                                                | --                                                                 | 114                                                                          | <.010                                                    | <.010                                                                | --                                                                            | --                                                                   | --                                                     | --                                                                   |
| 21...      | --                                              | --                                                                          | --                                                                  | --                                                                   | 149                                                                | --                                                                 | 200                                                                          | --                                                       | --                                                                   | --                                                                            | --                                                                   | --                                                     | --                                                                   |
| 21...      | --                                              | --                                                                          | --                                                                  | --                                                                   | 5,430                                                              | --                                                                 | 5,290                                                                        | <.010                                                    | <.010                                                                | --                                                                            | --                                                                   | --                                                     | --                                                                   |

## 02087588 LAKE WHEELER ON SWIFT CREEK NEAR RALEIGH, NC—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO**  
**SEPTEMBER 2008**

Part 5 of 5

[QC, quality control sample. Remark codes:  
 <, less than; E, estimated.]

| Date       | Zinc,<br>water,<br>unfiltrd<br>recover<br>-able,<br>µg/L<br>(01092) | Data<br>base<br>number | Medium<br>code |
|------------|---------------------------------------------------------------------|------------------------|----------------|
|            |                                                                     |                        |                |
| <b>Nov</b> |                                                                     |                        |                |
| 01...      | 2.3                                                                 | 01                     | WS             |
| 01...      | --                                                                  | 04                     | WSQ            |
| 01...      | --                                                                  | 04                     | WSQ            |
| 01...      | --                                                                  | 01                     | WS             |
| 01...      | --                                                                  | 01                     | WS             |
| 01...      | --                                                                  | 04                     | OAQ            |
| <b>Apr</b> |                                                                     |                        |                |
| 28...      | --                                                                  | 01                     | WS             |
| 28...      | --                                                                  | 04                     | WSQ            |
| 28...      | 2.1                                                                 | 01                     | WS             |
| 28...      | 3.6                                                                 | 04                     | WSQ            |
| 28...      | --                                                                  | 01                     | WS             |
| 28...      | --                                                                  | 01                     | WS             |
| 28...      | --                                                                  | 04                     | OAQ            |
| <b>Jun</b> |                                                                     |                        |                |
| 25...      | --                                                                  | 01                     | WS             |
| 25...      | --                                                                  | 01                     | WS             |
| 25...      | --                                                                  | 01                     | WS             |
| 25...      | --                                                                  | 01                     | WS             |
| <b>Aug</b> |                                                                     |                        |                |
| 21...      | --                                                                  | 01                     | WS             |
| 21...      | --                                                                  | 01                     | WS             |
| 21...      | --                                                                  | 01                     | WS             |
| 21...      | --                                                                  | 01                     | WS             |