

## 0208524950 LITTLE RIVER TRIBUTARY AT FAIRNTOSH, NC

Neuse Basin  
Upper Neuse Subbasin

LOCATION.--Lat 36°06'52", long 78°51'30" referenced to North American Datum of 1983, Durham County, NC, Hydrologic Unit 03020201, 0.2 mi above mouth and 0.8 mi northeast of Fairntosh.

DRAINAGE AREA.--0.86 mi<sup>2</sup>.

### WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1994 to current year.

REMARKS.--Station operated to define the impacts of various land-use development on surface-water quality in the Upper Neuse River basin.

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

Part 1 of 14

[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

| Date       | Time | Instantaneous discharge, cfs (00061) | Barometric pressure, mm Hg (00025) | Dissolved oxygen, mg/L (00300) | Dissolved oxygen, percent of saturation (00301) | pH, water, unfltrd field, std units (00400) | Specific conductance, wat unf 25 degC (00095) | Temperature, water, deg C (00010) | Ammonia + org-N, water, unfltrd mg/L as N (00625) | Ammonia water, fltrd, mg/L as N (00608) | Nitrate + nitrite water, fltrd, mg/L as N (00631) | Nitrate water, fltrd, mg/L as N (00618) | Nitrite water, fltrd, mg/L as N (00613) |
|------------|------|--------------------------------------|------------------------------------|--------------------------------|-------------------------------------------------|---------------------------------------------|-----------------------------------------------|-----------------------------------|---------------------------------------------------|-----------------------------------------|---------------------------------------------------|-----------------------------------------|-----------------------------------------|
| <b>Dec</b> |      |                                      |                                    |                                |                                                 |                                             |                                               |                                   |                                                   |                                         |                                                   |                                         |                                         |
| 11...      | 1145 | .01                                  | 757                                | 6.7                            | 62                                              | 6.8                                         | 252                                           | 12.0                              | .40                                               | E.010                                   | <.04                                              | --                                      | <.002                                   |
| <b>Feb</b> |      |                                      |                                    |                                |                                                 |                                             |                                               |                                   |                                                   |                                         |                                                   |                                         |                                         |
| 13...      | 0745 | 6.5                                  | 745                                | 14.3                           | 119                                             | 5.9                                         | 133                                           | 6.5                               | 1.0                                               | .038                                    | 1.15                                              | 1.15                                    | .005                                    |
| <b>Mar</b> |      |                                      |                                    |                                |                                                 |                                             |                                               |                                   |                                                   |                                         |                                                   |                                         |                                         |
| 28...      | 1145 | .19                                  | 751                                | 10.8                           | 106                                             | 6.4                                         | 189                                           | 14.1                              | .21                                               | <.020                                   | E.014                                             | --                                      | <.002                                   |
| <b>May</b> |      |                                      |                                    |                                |                                                 |                                             |                                               |                                   |                                                   |                                         |                                                   |                                         |                                         |
| 22...      | 1300 | .30                                  | 745                                | 7.2                            | 77                                              | 7.2                                         | 174                                           | 17.3                              | .35                                               | .022                                    | .136                                              | .13                                     | .003                                    |
| <b>Jun</b> |      |                                      |                                    |                                |                                                 |                                             |                                               |                                   |                                                   |                                         |                                                   |                                         |                                         |
| 30...      | 1100 | 2.2                                  | 740                                | 7.1                            | 85                                              | 6.7                                         | 132                                           | 22.9                              | 1.0                                               | <.020                                   | .290                                              | .29                                     | .004                                    |
| <b>Aug</b> |      |                                      |                                    |                                |                                                 |                                             |                                               |                                   |                                                   |                                         |                                                   |                                         |                                         |
| 27...      | 1330 | 3.5                                  | 750                                | --                             | --                                              | 6.9                                         | 112                                           | 22.1                              | 1.3                                               | .081                                    | 1.09                                              | 1.08                                    | .010                                    |
| <b>Sep</b> |      |                                      |                                    |                                |                                                 |                                             |                                               |                                   |                                                   |                                         |                                                   |                                         |                                         |
| 06...      | 1315 | E5.0                                 | 741                                | 7.8                            | 93                                              | 6.9                                         | 78                                            | 22.2                              | .87                                               | <.020                                   | .261                                              | .26                                     | .003                                    |

## 0208524950 LITTLE RIVER TRIBUTARY AT FAIRNTOSH, NC—Continued

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

Part 2 of 14

[Remark codes: &lt;, less than; E, estimated; M, presence verified but not quantified.]

| Date      | Ortho-phosphate, water, fltrd, mg/L as P (00671) | Phosphorus, water, unfltrd mg/L as P (00665) | Aluminum, water, unfltrd recover-able, µg/L (01105) | Arsenic water, unfltrd µg/L (01002) | Cadmium water, unfltrd µg/L (01027) | Chromium, water, unfltrd recover-able, µg/L (01034) | Cobalt water, unfltrd recover-able, µg/L (01037) | Copper, water, unfltrd recover-able, µg/L (01042) | Iron, water, unfltrd recover-able, µg/L (01045) | Lead, water, unfltrd recover-able, µg/L (01051) | Manganese, water, unfltrd recover-able, µg/L (01055) | Mercury water, unfltrd recover-able, µg/L (71900) | Molybdenum, water, unfltrd recover-able, µg/L (01062) |
|-----------|--------------------------------------------------|----------------------------------------------|-----------------------------------------------------|-------------------------------------|-------------------------------------|-----------------------------------------------------|--------------------------------------------------|---------------------------------------------------|-------------------------------------------------|-------------------------------------------------|------------------------------------------------------|---------------------------------------------------|-------------------------------------------------------|
| Dec 11... | .007                                             | E.04                                         | 108                                                 | .68                                 | .03                                 | E.28                                                | .35                                              | E1.2                                              | 266                                             | .19                                             | 122                                                  | <.010                                             | .3                                                    |
| Feb 13... | .154                                             | .239                                         | 396                                                 | 1.7                                 | .02                                 | .72                                                 | .35                                              | 4.6                                               | 451                                             | .58                                             | 79.5                                                 | .011                                              | .1                                                    |
| Mar 28... | E.004                                            | .014                                         | --                                                  | --                                  | --                                  | --                                                  | --                                               | --                                                | --                                              | --                                              | --                                                   | --                                                | --                                                    |
| May 22... | .010                                             | .040                                         | --                                                  | --                                  | --                                  | --                                                  | --                                               | --                                                | --                                              | --                                              | --                                                   | --                                                | --                                                    |
| Jun 30... | .012                                             | .190                                         | 420                                                 | 1.6                                 | E.01                                | .68                                                 | .45                                              | 5.4                                               | 701                                             | .84                                             | 98.2                                                 | .011                                              | .2                                                    |
| Aug 27... | .246                                             | .38                                          | 897                                                 | 2.2                                 | .03                                 | .91                                                 | .70                                              | 8.6                                               | 927                                             | 1.48                                            | 93.6                                                 | E.010                                             | .2                                                    |
| Sep 06... | .036                                             | .108                                         | 623                                                 | .91                                 | .03                                 | .56                                                 | .52                                              | 4.0                                               | 662                                             | .98                                             | 68.7                                                 | .011                                              | .1                                                    |

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

Part 3 of 14

[Remark codes: &lt;, less than; E, estimated; M, presence verified but not quantified.]

| Date      | Nickel, water, unfltrd recover-able, µg/L (01067) | Selenium, water, unfltrd µg/L (01147) | Silver, water, unfltrd recover-able, µg/L (01077) | Zinc, water, unfltrd recover-able, µg/L (01092) | 1-Naphthol, water, fltrd 0.7u GF µg/L (49295) | 2,4-D methyl ester, water, fltrd, µg/L (50470) | 2,4-D plus 2,4-D methyl ester µg/L as 2,4-D (66496) | 2,4-D, water, fltrd, µg/L (39732) | 2,4-DB, water, fltrd 0.7u GF µg/L (38746) | 2,6-Diethyl-aniline water, fltrd 0.7u GF µg/L (82660) | 2Chloro-2',6'-diethyl acet-anilide wat flt µg/L (61618) | CIAT, water, fltrd, µg/L (04040) | CEAT, water, fltrd, µg/L (04038) |
|-----------|---------------------------------------------------|---------------------------------------|---------------------------------------------------|-------------------------------------------------|-----------------------------------------------|------------------------------------------------|-----------------------------------------------------|-----------------------------------|-------------------------------------------|-------------------------------------------------------|---------------------------------------------------------|----------------------------------|----------------------------------|
| Dec 11... | .45                                               | .10                                   | <.02                                              | E1.6                                            | --                                            | --                                             | --                                                  | --                                | --                                        | --                                                    | --                                                      | --                               | --                               |
| Feb 13... | 2.2                                               | .13                                   | <.02                                              | 9.9                                             | --                                            | --                                             | --                                                  | --                                | --                                        | --                                                    | --                                                      | --                               | --                               |
| Mar 28... | --                                                | --                                    | --                                                | --                                              | --                                            | --                                             | --                                                  | --                                | --                                        | --                                                    | --                                                      | --                               | --                               |
| May 22... | --                                                | --                                    | --                                                | --                                              | --                                            | --                                             | --                                                  | --                                | --                                        | --                                                    | --                                                      | --                               | --                               |
| Jun 30... | .69                                               | .18                                   | <.02                                              | 5.2                                             | E.01                                          | <.040                                          | <.02                                                | <.02                              | <.02                                      | <.002                                                 | <.010                                                   | E.008                            | <.08                             |
| Aug 27... | .85                                               | .15                                   | E.01                                              | 7.2                                             | --                                            | --                                             | --                                                  | --                                | --                                        | --                                                    | --                                                      | --                               | --                               |
| Sep 06... | .76                                               | .16                                   | <.02                                              | 5.1                                             | --                                            | --                                             | --                                                  | --                                | --                                        | --                                                    | --                                                      | --                               | --                               |

## 0208524950 LITTLE RIVER TRIBUTARY AT FAIRNTOSH, NC—Continued

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

Part 4 of 14

[Remark codes: &lt;, less than; E, estimated; M, presence verified but not quantified.]

| Date         | 2-Ethyl-<br>-6-<br>methyl-<br>aniline<br>water,<br>fltrd,<br>µg/L<br>(61620) | OIET,<br>water,<br>fltrd,<br>µg/L<br>(50355) | 3,4-Di-<br>chloro-<br>aniline<br>water,<br>fltrd,<br>µg/L<br>(61625) | 3,5-Di-<br>chloro-<br>aniline<br>water,<br>fltrd,<br>µg/L<br>(61627) | 3-<br>Hydroxy<br>carbo-<br>furan,<br>wat flt<br>0.7u GF<br>µg/L<br>(49308) | 4-<br>Chloro-<br>2methyl<br>phenol,<br>water,<br>fltrd,<br>µg/L<br>(61633) | Aceto-<br>chlor,<br>water,<br>fltrd,<br>µg/L<br>(49260) | Aci-<br>fluor-<br>fen,<br>water,<br>fltrd<br>0.7u GF<br>µg/L<br>(49315) | Ala-<br>chlor,<br>water,<br>fltrd,<br>µg/L<br>(46342) | Aldi-<br>carb<br>sulfone<br>water,<br>fltrd<br>0.7u GF<br>µg/L<br>(49313) | Aldi-<br>carb<br>sulf-<br>oxide,<br>wat flt<br>0.7u GF<br>µg/L<br>(49314) | Aldi-<br>carb,<br>water,<br>fltrd<br>0.7u GF<br>µg/L<br>(49312) | alpha-<br>Endo-<br>sulfan,<br>water,<br>fltrd,<br>µg/L<br>(34362) |
|--------------|------------------------------------------------------------------------------|----------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------|
| Dec<br>11... | --                                                                           | --                                           | --                                                                   | --                                                                   | --                                                                         | --                                                                         | --                                                      | --                                                                      | --                                                    | --                                                                        | --                                                                        | --                                                              | --                                                                |
| Feb<br>13... | --                                                                           | --                                           | --                                                                   | --                                                                   | --                                                                         | --                                                                         | --                                                      | --                                                                      | --                                                    | --                                                                        | --                                                                        | --                                                              | --                                                                |
| Mar<br>28... | --                                                                           | --                                           | --                                                                   | --                                                                   | --                                                                         | --                                                                         | --                                                      | --                                                                      | --                                                    | --                                                                        | --                                                                        | --                                                              | --                                                                |
| May<br>22... | --                                                                           | --                                           | --                                                                   | --                                                                   | --                                                                         | --                                                                         | --                                                      | --                                                                      | --                                                    | --                                                                        | --                                                                        | --                                                              | --                                                                |
| Jun<br>30... | <.010                                                                        | <.040                                        | E.009                                                                | E.007                                                                | <.040                                                                      | E.004                                                                      | <.006                                                   | <.040                                                                   | <.006                                                 | <.08                                                                      | <.060                                                                     | <.12                                                            | <.006                                                             |
| Aug<br>27... | --                                                                           | --                                           | --                                                                   | --                                                                   | --                                                                         | --                                                                         | --                                                      | --                                                                      | --                                                    | --                                                                        | --                                                                        | --                                                              | --                                                                |
| Sep<br>06... | --                                                                           | --                                           | --                                                                   | --                                                                   | --                                                                         | --                                                                         | --                                                      | --                                                                      | --                                                    | --                                                                        | --                                                                        | --                                                              | --                                                                |

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

Part 5 of 14

[Remark codes: &lt;, less than; E, estimated; M, presence verified but not quantified.]

| Date         | alpha-<br>HCH,<br>water,<br>fltrd,<br>µg/L<br>(34253) | Atra-<br>zine,<br>water,<br>fltrd,<br>µg/L<br>(39632) | Azin-<br>phos-<br>methyl<br>oxon,<br>water,<br>fltrd,<br>µg/L<br>(61635) | Azin-<br>phos-<br>methyl,<br>water,<br>fltrd<br>0.7u GF<br>µg/L<br>(82686) | Bendio-<br>carb,<br>water,<br>fltrd,<br>µg/L<br>(50299) | Ben-<br>flur-<br>alin,<br>water,<br>fltrd<br>0.7u GF<br>µg/L<br>(82673) | Benomyl<br>water,<br>fltrd,<br>µg/L<br>(50300) | Bensul-<br>furon-<br>methyl,<br>water,<br>fltrd,<br>µg/L<br>(61693) | Ben-<br>tazon,<br>water,<br>fltrd<br>0.7u GF<br>µg/L<br>(38711) | Broma-<br>cil,<br>water,<br>fltrd,<br>µg/L<br>(04029) | Brom-<br>oxynil,<br>water,<br>fltrd<br>0.7u GF<br>µg/L<br>(49311) | Butyl-<br>ate,<br>water,<br>fltrd,<br>µg/L<br>(04028) | Caf-<br>feine,<br>water,<br>fltrd,<br>µg/L<br>(50305) |
|--------------|-------------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------|-------------------------------------------------------------------------|------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|
| Dec<br>11... | --                                                    | --                                                    | --                                                                       | --                                                                         | --                                                      | --                                                                      | --                                             | --                                                                  | --                                                              | --                                                    | --                                                                | --                                                    | --                                                    |
| Feb<br>13... | --                                                    | --                                                    | --                                                                       | --                                                                         | --                                                      | --                                                                      | --                                             | --                                                                  | --                                                              | --                                                    | --                                                                | --                                                    | --                                                    |
| Mar<br>28... | --                                                    | --                                                    | --                                                                       | --                                                                         | --                                                      | --                                                                      | --                                             | --                                                                  | --                                                              | --                                                    | --                                                                | --                                                    | --                                                    |
| May<br>22... | --                                                    | --                                                    | --                                                                       | --                                                                         | --                                                      | --                                                                      | --                                             | --                                                                  | --                                                              | --                                                    | --                                                                | --                                                    | --                                                    |
| Jun<br>30... | <.002                                                 | .010                                                  | <.04                                                                     | <.120                                                                      | <.04                                                    | <.004                                                                   | <.040                                          | <.06                                                                | <.04                                                            | <.02                                                  | <.12                                                              | <.002                                                 | <.060                                                 |
| Aug<br>27... | --                                                    | --                                                    | --                                                                       | --                                                                         | --                                                      | --                                                                      | --                                             | --                                                                  | --                                                              | --                                                    | --                                                                | --                                                    | --                                                    |
| Sep<br>06... | --                                                    | --                                                    | --                                                                       | --                                                                         | --                                                      | --                                                                      | --                                             | --                                                                  | --                                                              | --                                                    | --                                                                | --                                                    | --                                                    |

## 0208524950 LITTLE RIVER TRIBUTARY AT FAIRNTOSH, NC—Continued

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

Part 6 of 14

[Remark codes: &lt;, less than; E, estimated; M, presence verified but not quantified.]

| Date         | Car-<br>baryl,<br>water,<br>fltrd<br>0.7u GF<br>µg/L<br>(49310) | Carbo-<br>furan,<br>water,<br>fltrd<br>0.7u GF<br>µg/L<br>(49309) | Chlor-<br>amben<br>methyl<br>ester,<br>water,<br>fltrd,<br>µg/L<br>(61188) | Chlori-<br>muron-<br>ethyl,<br>water,<br>fltrd,<br>µg/L<br>(50306) | Chlor-<br>pyrifos<br>water,<br>fltrd,<br>µg/L<br>(38933) | cis-<br>Per-<br>methrin<br>water<br>fltrd<br>0.7u GF<br>µg/L<br>(82687) | cis-<br>Propi-<br>cona-<br>zole,<br>water,<br>fltrd,<br>µg/L<br>(79846) | Clopyr-<br>alid,<br>water,<br>fltrd<br>0.7u GF<br>µg/L<br>(49305) | Cyana-<br>zine,<br>water,<br>fltrd,<br>µg/L<br>(04041) | Cyclo-<br>ate,<br>water,<br>fltrd,<br>µg/L<br>(04031) | Cyflu-<br>thrin,<br>water,<br>fltrd,<br>µg/L<br>(61585) | lambda-<br>Cyhalo-<br>thrin,<br>water,<br>fltrd,<br>µg/L<br>(61595) | Cyper-<br>methrin<br>water,<br>fltrd,<br>µg/L<br>(61586) |
|--------------|-----------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------|-------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------|
| Dec<br>11... | --                                                              | --                                                                | --                                                                         | --                                                                 | --                                                       | --                                                                      | --                                                                      | --                                                                | --                                                     | --                                                    | --                                                      | --                                                                  | --                                                       |
| Feb<br>13... | --                                                              | --                                                                | --                                                                         | --                                                                 | --                                                       | --                                                                      | --                                                                      | --                                                                | --                                                     | --                                                    | --                                                      | --                                                                  | --                                                       |
| Mar<br>28... | --                                                              | --                                                                | --                                                                         | --                                                                 | --                                                       | --                                                                      | --                                                                      | --                                                                | --                                                     | --                                                    | --                                                      | --                                                                  | --                                                       |
| May<br>22... | --                                                              | --                                                                | --                                                                         | --                                                                 | --                                                       | --                                                                      | --                                                                      | --                                                                | --                                                     | --                                                    | --                                                      | --                                                                  | --                                                       |
| Jun<br>30... | E.02                                                            | <.020                                                             | <.10                                                                       | <.080                                                              | <.005                                                    | <.010                                                                   | E.017                                                                   | <.06                                                              | <.020                                                  | <.02                                                  | <.016                                                   | <.020                                                               | <.014                                                    |
| Aug<br>27... | --                                                              | --                                                                | --                                                                         | --                                                                 | --                                                       | --                                                                      | --                                                                      | --                                                                | --                                                     | --                                                    | --                                                      | --                                                                  | --                                                       |
| Sep<br>06... | --                                                              | --                                                                | --                                                                         | --                                                                 | --                                                       | --                                                                      | --                                                                      | --                                                                | --                                                     | --                                                    | --                                                      | --                                                                  | --                                                       |

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

Part 7 of 14

[Remark codes: &lt;, less than; E, estimated; M, presence verified but not quantified.]

| Date         | Dacthal<br>mono-<br>acid,<br>water,<br>fltrd<br>0.7u GF<br>µg/L<br>(49304) | DCPA,<br>water,<br>fltrd<br>0.7u GF<br>µg/L<br>(82682) | Desulf-<br>inyl-<br>fipro-<br>nil,<br>water,<br>fltrd,<br>µg/L<br>(62170) | Diazi-<br>non,<br>water,<br>fltrd,<br>µg/L<br>(39572) | Dicamba<br>water,<br>fltrd<br>0.7u GF<br>µg/L<br>(38442) | Di-<br>chlor-<br>prop,<br>water,<br>fltrd<br>0.7u GF<br>µg/L<br>(49302) | Dicro-<br>tophos,<br>water,<br>fltrd,<br>µg/L<br>(38454) | Diel-<br>drin,<br>water,<br>fltrd,<br>µg/L<br>(39381) | Dimeth-<br>oate,<br>water,<br>fltrd<br>0.7u GF<br>µg/L<br>(82662) | Dinoseb<br>water,<br>fltrd<br>0.7u GF<br>µg/L<br>(49301) | Diphen-<br>amid,<br>water,<br>fltrd,<br>µg/L<br>(04033) | Disulf-<br>oton<br>sulfone<br>water,<br>fltrd,<br>µg/L<br>(61640) | Disul-<br>foton,<br>water,<br>fltrd<br>0.7u GF<br>µg/L<br>(82677) |
|--------------|----------------------------------------------------------------------------|--------------------------------------------------------|---------------------------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------|---------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------|
| Dec<br>11... | --                                                                         | --                                                     | --                                                                        | --                                                    | --                                                       | --                                                                      | --                                                       | --                                                    | --                                                                | --                                                       | --                                                      | --                                                                | --                                                                |
| Feb<br>13... | --                                                                         | --                                                     | --                                                                        | --                                                    | --                                                       | --                                                                      | --                                                       | --                                                    | --                                                                | --                                                       | --                                                      | --                                                                | --                                                                |
| Mar<br>28... | --                                                                         | --                                                     | --                                                                        | --                                                    | --                                                       | --                                                                      | --                                                       | --                                                    | --                                                                | --                                                       | --                                                      | --                                                                | --                                                                |
| May<br>22... | --                                                                         | --                                                     | --                                                                        | --                                                    | --                                                       | --                                                                      | --                                                       | --                                                    | --                                                                | --                                                       | --                                                      | --                                                                | --                                                                |
| Jun<br>30... | <.02                                                                       | <.003                                                  | E.004                                                                     | <.005                                                 | <.04                                                     | <.02                                                                    | <.08                                                     | <.009                                                 | <.006                                                             | <.04                                                     | <.04                                                    | <.01                                                              | <.04                                                              |
| Aug<br>27... | --                                                                         | --                                                     | --                                                                        | --                                                    | --                                                       | --                                                                      | --                                                       | --                                                    | --                                                                | --                                                       | --                                                      | --                                                                | --                                                                |
| Sep<br>06... | --                                                                         | --                                                     | --                                                                        | --                                                    | --                                                       | --                                                                      | --                                                       | --                                                    | --                                                                | --                                                       | --                                                      | --                                                                | --                                                                |

## 0208524950 LITTLE RIVER TRIBUTARY AT FAIRNTOSH, NC—Continued

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

Part 8 of 14

[Remark codes: &lt;, less than; E, estimated; M, presence verified but not quantified.]

| Date      | Diuron,<br>water,<br>fltrd<br>0.7u GF<br>µg/L<br>(49300) | Endo-<br>sulfan<br>sulfate<br>water,<br>fltrd,<br>µg/L<br>(61590) | EPTC,<br>water,<br>fltrd<br>0.7u GF<br>µg/L<br>(82668) | Ethal-<br>flur-<br>alin,<br>water,<br>fltrd<br>0.7u GF<br>µg/L<br>(82663) | Ethion<br>monoxon<br>water,<br>fltrd,<br>µg/L<br>(61644) | Etho-<br>prop,<br>water,<br>fltrd<br>0.7u GF<br>µg/L<br>(82672) | Fenami-<br>phos<br>sulfone<br>water,<br>fltrd,<br>µg/L<br>(61645) | Fenami-<br>phos<br>sulf-<br>oxide,<br>water,<br>fltrd,<br>µg/L<br>(61646) | Fenami-<br>phos,<br>water,<br>fltrd,<br>µg/L<br>(61591) | Fenuron<br>water,<br>fltrd<br>0.7u GF<br>µg/L<br>(49297) | Desulf-<br>inyl-<br>fipro-<br>nil<br>amide,<br>wat flt<br>µg/L<br>(62169) | Fipro-<br>nil<br>sulfide<br>water,<br>fltrd,<br>µg/L<br>(62167) | Fipro-<br>nil<br>sulfone<br>water,<br>fltrd,<br>µg/L<br>(62168) |
|-----------|----------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------|---------------------------------------------------------------------------|----------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------|---------------------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|
| Dec 11... | --                                                       | --                                                                | --                                                     | --                                                                        | --                                                       | --                                                              | --                                                                | --                                                                        | --                                                      | --                                                       | --                                                                        | --                                                              | --                                                              |
| Feb 13... | --                                                       | --                                                                | --                                                     | --                                                                        | --                                                       | --                                                              | --                                                                | --                                                                        | --                                                      | --                                                       | --                                                                        | --                                                              | --                                                              |
| Mar 28... | --                                                       | --                                                                | --                                                     | --                                                                        | --                                                       | --                                                              | --                                                                | --                                                                        | --                                                      | --                                                       | --                                                                        | --                                                              | --                                                              |
| May 22... | --                                                       | --                                                                | --                                                     | --                                                                        | --                                                       | --                                                              | --                                                                | --                                                                        | --                                                      | --                                                       | --                                                                        | --                                                              | --                                                              |
| Jun 30... | .08                                                      | <.022                                                             | <.002                                                  | <.009                                                                     | <.02                                                     | <.012                                                           | <.200                                                             | <.20                                                                      | <.03                                                    | <.04                                                     | E.003                                                                     | .022                                                            | .032                                                            |
| Aug 27... | --                                                       | --                                                                | --                                                     | --                                                                        | --                                                       | --                                                              | --                                                                | --                                                                        | --                                                      | --                                                       | --                                                                        | --                                                              | --                                                              |
| Sep 06... | --                                                       | --                                                                | --                                                     | --                                                                        | --                                                       | --                                                              | --                                                                | --                                                                        | --                                                      | --                                                       | --                                                                        | --                                                              | --                                                              |

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

Part 9 of 14

[Remark codes: &lt;, less than; E, estimated; M, presence verified but not quantified.]

| Date      | Fipro-<br>nil,<br>water,<br>fltrd,<br>µg/L<br>(62166) | Flumet-<br>sulam,<br>water,<br>fltrd,<br>µg/L<br>(61694) | Fluo-<br>meturon<br>water,<br>fltrd<br>0.7u GF<br>µg/L<br>(38811) | Fonofos<br>water,<br>fltrd,<br>µg/L<br>(04095) | Hexa-<br>zinone,<br>water,<br>fltrd,<br>µg/L<br>(04025) | Imaza-<br>quin,<br>water,<br>fltrd,<br>µg/L<br>(50356) | Imaze-<br>thapyr,<br>water,<br>fltrd,<br>µg/L<br>(50407) | Imida-<br>cloprid<br>water,<br>fltrd,<br>µg/L<br>(61695) | Ipro-<br>dione,<br>water,<br>fltrd,<br>µg/L<br>(61593) | Isofen-<br>phos,<br>water,<br>fltrd,<br>µg/L<br>(61594) | Lindane<br>water,<br>fltrd,<br>µg/L<br>(39341) | Linuron<br>water,<br>fltrd<br>0.7u GF<br>µg/L<br>(38478) | Mala-<br>oxon,<br>water,<br>fltrd,<br>µg/L<br>(61652) |
|-----------|-------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------|------------------------------------------------|---------------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|--------------------------------------------------------|---------------------------------------------------------|------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------|
| Dec 11... | --                                                    | --                                                       | --                                                                | --                                             | --                                                      | --                                                     | --                                                       | --                                                       | --                                                     | --                                                      | --                                             | --                                                       | --                                                    |
| Feb 13... | --                                                    | --                                                       | --                                                                | --                                             | --                                                      | --                                                     | --                                                       | --                                                       | --                                                     | --                                                      | --                                             | --                                                       | --                                                    |
| Mar 28... | --                                                    | --                                                       | --                                                                | --                                             | --                                                      | --                                                     | --                                                       | --                                                       | --                                                     | --                                                      | --                                             | --                                                       | --                                                    |
| May 22... | --                                                    | --                                                       | --                                                                | --                                             | --                                                      | --                                                     | --                                                       | --                                                       | --                                                     | --                                                      | --                                             | --                                                       | --                                                    |
| Jun 30... | E.145                                                 | <.06                                                     | E.01                                                              | <.010                                          | <.008                                                   | <.04                                                   | <.04                                                     | E.052                                                    | M                                                      | <.006                                                   | <.006                                          | <.02                                                     | <.020                                                 |
| Aug 27... | --                                                    | --                                                       | --                                                                | --                                             | --                                                      | --                                                     | --                                                       | --                                                       | --                                                     | --                                                      | --                                             | --                                                       | --                                                    |
| Sep 06... | --                                                    | --                                                       | --                                                                | --                                             | --                                                      | --                                                     | --                                                       | --                                                       | --                                                     | --                                                      | --                                             | --                                                       | --                                                    |

## 0208524950 LITTLE RIVER TRIBUTARY AT FAIRNTOSH, NC—Continued

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

Part 10 of 14

[Remark codes: &lt;, less than; E, estimated; M, presence verified but not quantified.]

| Date      | Mala-<br>thion,<br>water,<br>fltrd,<br>µg/L<br>(39532) | MCPA,<br>water,<br>fltrd<br>0.7u GF<br>µg/L<br>(38482) | MCPB,<br>water,<br>fltrd<br>0.7u GF<br>µg/L<br>(38487) | Meta-<br>laxyl,<br>water,<br>fltrd,<br>µg/L<br>(50359) | Methid-<br>athion,<br>water,<br>fltrd,<br>µg/L<br>(61598) | Methio-<br>carb,<br>water,<br>fltrd<br>0.7u GF<br>µg/L<br>(38501) | Meth-<br>omyl,<br>water,<br>fltrd<br>0.7u GF<br>µg/L<br>(49296) | Methyl<br>para-<br>oxon,<br>water,<br>fltrd,<br>µg/L<br>(61664) | Methyl<br>para-<br>thion,<br>water,<br>fltrd<br>0.7u GF<br>µg/L<br>(82667) | Metola-<br>chlor,<br>water,<br>fltrd,<br>µg/L<br>(39415) | Metri-<br>buzin,<br>water,<br>fltrd,<br>µg/L<br>(82630) | Metsul-<br>furon-<br>methyl,<br>water,<br>fltrd,<br>µg/L<br>(61697) | Moli-<br>nate,<br>water,<br>fltrd<br>0.7u GF<br>µg/L<br>(82671) |
|-----------|--------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------|-----------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------------------|
| Dec 11... | --                                                     | --                                                     | --                                                     | --                                                     | --                                                        | --                                                                | --                                                              | --                                                              | --                                                                         | --                                                       | --                                                      | --                                                                  | --                                                              |
| Feb 13... | --                                                     | --                                                     | --                                                     | --                                                     | --                                                        | --                                                                | --                                                              | --                                                              | --                                                                         | --                                                       | --                                                      | --                                                                  | --                                                              |
| Mar 28... | --                                                     | --                                                     | --                                                     | --                                                     | --                                                        | --                                                                | --                                                              | --                                                              | --                                                                         | --                                                       | --                                                      | --                                                                  | --                                                              |
| May 22... | --                                                     | --                                                     | --                                                     | --                                                     | --                                                        | --                                                                | --                                                              | --                                                              | --                                                                         | --                                                       | --                                                      | --                                                                  | --                                                              |
| Jun 30... | .030                                                   | <.06                                                   | <.06                                                   | E.01                                                   | <.004                                                     | <.040                                                             | <.120                                                           | <.01                                                            | <.008                                                                      | <.010                                                    | <.012                                                   | <.14                                                                | <.002                                                           |
| Aug 27... | --                                                     | --                                                     | --                                                     | --                                                     | --                                                        | --                                                                | --                                                              | --                                                              | --                                                                         | --                                                       | --                                                      | --                                                                  | --                                                              |
| Sep 06... | --                                                     | --                                                     | --                                                     | --                                                     | --                                                        | --                                                                | --                                                              | --                                                              | --                                                                         | --                                                       | --                                                      | --                                                                  | --                                                              |

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

Part 11 of 14

[Remark codes: &lt;, less than; E, estimated; M, presence verified but not quantified.]

| Date      | Myclo-<br>butanil<br>water,<br>fltrd,<br>µg/L<br>(61599) | N-(4-<br>Chloro-<br>phenyl)<br>-N'-<br>methyl-<br>urea,<br>µg/L<br>(61692) | Naprop-<br>amide,<br>water,<br>fltrd<br>0.7u GF<br>µg/L<br>(82684) | Neburon<br>water,<br>fltrd<br>0.7u GF<br>µg/L<br>(49294) | Nico-<br>sul-<br>furon,<br>water,<br>fltrd,<br>µg/L<br>(50364) | Norflur<br>azon,<br>water,<br>fltrd<br>0.7u GF<br>µg/L<br>(49293) | Ory-<br>zalin,<br>water,<br>fltrd<br>0.7u GF<br>µg/L<br>(49292) | Oxamyl,<br>water,<br>fltrd<br>0.7u GF<br>µg/L<br>(38866) | Oxy-<br>fluor-<br>fen,<br>water,<br>fltrd,<br>µg/L<br>(61600) | p,p'-<br>DDE,<br>water,<br>fltrd,<br>µg/L<br>(34653) | Para-<br>thion,<br>water,<br>fltrd,<br>µg/L<br>(39542) | Peb-<br>ulate,<br>water,<br>fltrd<br>0.7u GF<br>µg/L<br>(82669) | Pendi-<br>meth-<br>alin,<br>water,<br>fltrd<br>0.7u GF<br>µg/L<br>(82683) |
|-----------|----------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------------------------|
| Dec 11... | --                                                       | --                                                                         | --                                                                 | --                                                       | --                                                             | --                                                                | --                                                              | --                                                       | --                                                            | --                                                   | --                                                     | --                                                              | --                                                                        |
| Feb 13... | --                                                       | --                                                                         | --                                                                 | --                                                       | --                                                             | --                                                                | --                                                              | --                                                       | --                                                            | --                                                   | --                                                     | --                                                              | --                                                                        |
| Mar 28... | --                                                       | --                                                                         | --                                                                 | --                                                       | --                                                             | --                                                                | --                                                              | --                                                       | --                                                            | --                                                   | --                                                     | --                                                              | --                                                                        |
| May 22... | --                                                       | --                                                                         | --                                                                 | --                                                       | --                                                             | --                                                                | --                                                              | --                                                       | --                                                            | --                                                   | --                                                     | --                                                              | --                                                                        |
| Jun 30... | .239                                                     | <.12                                                                       | <.018                                                              | <.02                                                     | <.10                                                           | <.02                                                              | <.04                                                            | <.12                                                     | <.006                                                         | <.003                                                | <.010                                                  | <.004                                                           | <.012                                                                     |
| Aug 27... | --                                                       | --                                                                         | --                                                                 | --                                                       | --                                                             | --                                                                | --                                                              | --                                                       | --                                                            | --                                                   | --                                                     | --                                                              | --                                                                        |
| Sep 06... | --                                                       | --                                                                         | --                                                                 | --                                                       | --                                                             | --                                                                | --                                                              | --                                                       | --                                                            | --                                                   | --                                                     | --                                                              | --                                                                        |

## 0208524950 LITTLE RIVER TRIBUTARY AT FAIRNTOSH, NC—Continued

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

Part 12 of 14

[Remark codes: &lt;, less than; E, estimated; M, presence verified but not quantified.]

| Date         | Phorate<br>oxon,<br>water,<br>fltrd,<br>µg/L<br>(61666) | Phorate<br>water,<br>fltrd<br>0.7u GF<br>µg/L<br>(82664) | Phosmet<br>oxon,<br>water,<br>fltrd,<br>µg/L<br>(61668) | Phosmet<br>water,<br>fltrd,<br>µg/L<br>(61601) | Pic-<br>loram,<br>water,<br>fltrd<br>0.7u GF<br>µg/L<br>(49291) | Prome-<br>ton,<br>water,<br>fltrd,<br>µg/L<br>(04037) | Prome-<br>tryn,<br>water,<br>fltrd,<br>µg/L<br>(04036) | Propy-<br>zamide,<br>water,<br>fltrd<br>0.7u GF<br>µg/L<br>(82676) | Propa-<br>chlor,<br>water,<br>fltrd,<br>µg/L<br>(04024) | Pro-<br>panil,<br>water,<br>fltrd<br>0.7u GF<br>µg/L<br>(82679) | Propar-<br>gite,<br>water,<br>fltrd<br>0.7u GF<br>µg/L<br>(82685) | Propham<br>water,<br>fltrd<br>0.7u GF<br>µg/L<br>(49236) | Propi-<br>cona-<br>zole,<br>water,<br>fltrd,<br>µg/L<br>(50471) |
|--------------|---------------------------------------------------------|----------------------------------------------------------|---------------------------------------------------------|------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------|-----------------------------------------------------------------|
| Dec<br>11... | --                                                      | --                                                       | --                                                      | --                                             | --                                                              | --                                                    | --                                                     | --                                                                 | --                                                      | --                                                              | --                                                                | --                                                       | --                                                              |
| Feb<br>13... | --                                                      | --                                                       | --                                                      | --                                             | --                                                              | --                                                    | --                                                     | --                                                                 | --                                                      | --                                                              | --                                                                | --                                                       | --                                                              |
| Mar<br>28... | --                                                      | --                                                       | --                                                      | --                                             | --                                                              | --                                                    | --                                                     | --                                                                 | --                                                      | --                                                              | --                                                                | --                                                       | --                                                              |
| May<br>22... | --                                                      | --                                                       | --                                                      | --                                             | --                                                              | --                                                    | --                                                     | --                                                                 | --                                                      | --                                                              | --                                                                | --                                                       | --                                                              |
| Jun<br>30... | <.03                                                    | <.040                                                    | <.05                                                    | <.008                                          | <.12                                                            | .01                                                   | <.006                                                  | <.004                                                              | <.006                                                   | <.006                                                           | <.04                                                              | <.040                                                    | E.03                                                            |
| Aug<br>27... | --                                                      | --                                                       | --                                                      | --                                             | --                                                              | --                                                    | --                                                     | --                                                                 | --                                                      | --                                                              | --                                                                | --                                                       | --                                                              |
| Sep<br>06... | --                                                      | --                                                       | --                                                      | --                                             | --                                                              | --                                                    | --                                                     | --                                                                 | --                                                      | --                                                              | --                                                                | --                                                       | --                                                              |

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

Part 13 of 14

[Remark codes: &lt;, less than; E, estimated; M, presence verified but not quantified.]

| Date         | Pro-<br>poxur,<br>water,<br>fltrd<br>0.7u GF<br>µg/L<br>(38538) | Sima-<br>zine,<br>water,<br>fltrd,<br>µg/L<br>(04035) | Sulfo-<br>met-<br>ruron-<br>methyl,<br>water,<br>fltrd,<br>µg/L<br>(50337) | Tebu-<br>thiuron<br>water,<br>fltrd<br>0.7u GF<br>µg/L<br>(82670) | Teflu-<br>thrin,<br>water,<br>fltrd,<br>µg/L<br>(61606) | Terba-<br>cil,<br>water,<br>fltrd,<br>µg/L<br>(04032) | Ter-<br>bufos<br>oxon<br>sulfone<br>water,<br>fltrd,<br>µg/L<br>(61674) | Terbu-<br>fos,<br>water,<br>fltrd<br>0.7u GF<br>µg/L<br>(82675) | Ter-<br>buthyl-<br>azine,<br>water,<br>fltrd,<br>µg/L<br>(04022) | Thio-<br>bencarb<br>water,<br>fltrd<br>0.7u GF<br>µg/L<br>(82681) | trans-<br>Propi-<br>cona-<br>zole,<br>water,<br>fltrd,<br>µg/L<br>(79847) | Tri-<br>allate,<br>water,<br>fltrd<br>0.7u GF<br>µg/L<br>(82678) | Tribu-<br>phos,<br>water,<br>fltrd,<br>µg/L<br>(61610) |
|--------------|-----------------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------------------------------|-------------------------------------------------------------------|---------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------|-------------------------------------------------------------------|---------------------------------------------------------------------------|------------------------------------------------------------------|--------------------------------------------------------|
| Dec<br>11... | --                                                              | --                                                    | --                                                                         | --                                                                | --                                                      | --                                                    | --                                                                      | --                                                              | --                                                               | --                                                                | --                                                                        | --                                                               | --                                                     |
| Feb<br>13... | --                                                              | --                                                    | --                                                                         | --                                                                | --                                                      | --                                                    | --                                                                      | --                                                              | --                                                               | --                                                                | --                                                                        | --                                                               | --                                                     |
| Mar<br>28... | --                                                              | --                                                    | --                                                                         | --                                                                | --                                                      | --                                                    | --                                                                      | --                                                              | --                                                               | --                                                                | --                                                                        | --                                                               | --                                                     |
| May<br>22... | --                                                              | --                                                    | --                                                                         | --                                                                | --                                                      | --                                                    | --                                                                      | --                                                              | --                                                               | --                                                                | --                                                                        | --                                                               | --                                                     |
| Jun<br>30... | <.040                                                           | .102                                                  | E.002                                                                      | <.02                                                              | <.003                                                   | <.040                                                 | <.04                                                                    | <.02                                                            | <.01                                                             | <.010                                                             | E.05                                                                      | <.006                                                            | <.035                                                  |
| Aug<br>27... | --                                                              | --                                                    | --                                                                         | --                                                                | --                                                      | --                                                    | --                                                                      | --                                                              | --                                                               | --                                                                | --                                                                        | --                                                               | --                                                     |
| Sep<br>06... | --                                                              | --                                                    | --                                                                         | --                                                                | --                                                      | --                                                    | --                                                                      | --                                                              | --                                                               | --                                                                | --                                                                        | --                                                               | --                                                     |

## 0208524950 LITTLE RIVER TRIBUTARY AT FAIRNTOSH, NC—Continued

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

Part 14 of 14

[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

| Date       | Tri-clopyr,<br>water,<br>fltrd<br>0.7u GF<br>µg/L<br>(49235) | Tri-flur-alin,<br>water,<br>fltrd<br>0.7u GF<br>µg/L<br>(82661) | Di-chlor-vos,<br>water,<br>fltrd,<br>µg/L<br>(38775) | Sus-pended<br>sedi-ment<br>concentration<br>mg/L<br>(80154) | Sus-pended<br>sedi-ment<br>dis-charge,<br>tons/d<br>(80155) |
|------------|--------------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|
| <b>Dec</b> |                                                              |                                                                 |                                                      |                                                             |                                                             |
| 11...      | --                                                           | --                                                              | --                                                   | 3                                                           | .00                                                         |
| <b>Feb</b> |                                                              |                                                                 |                                                      |                                                             |                                                             |
| 13...      | --                                                           | --                                                              | --                                                   | 27                                                          | .47                                                         |
| <b>Mar</b> |                                                              |                                                                 |                                                      |                                                             |                                                             |
| 28...      | --                                                           | --                                                              | --                                                   | 5                                                           | .00                                                         |
| <b>May</b> |                                                              |                                                                 |                                                      |                                                             |                                                             |
| 22...      | --                                                           | --                                                              | --                                                   | 6                                                           | .00                                                         |
| <b>Jun</b> |                                                              |                                                                 |                                                      |                                                             |                                                             |
| 30...      | <.08                                                         | <.006                                                           | <.01                                                 | 42                                                          | .25                                                         |
| <b>Aug</b> |                                                              |                                                                 |                                                      |                                                             |                                                             |
| 27...      | --                                                           | --                                                              | --                                                   | 39                                                          | .37                                                         |
| <b>Sep</b> |                                                              |                                                                 |                                                      |                                                             |                                                             |
| 06...      | --                                                           | --                                                              | --                                                   | 73                                                          | E.99                                                        |