

## Water-Data Report 2008

**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: &lt;, 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)	Disolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif-ic conductance, wat unf 25 degC (00095)	Temper-ature, water, deg C (00010)	Ammonia		Nitrate		
									+ org-N, water, unfltrd (00625) mg/L as N	+ Ammonia water, fltrd, (00608) mg/L as N	+ nitrite water fltrd, (00631) mg/L as N	Nitrate water, fltrd, (00618) mg/L as N	Nitrite water, fltrd, (00613) mg/L as N
Dec 11...	1145	.01	757	6.7	62	6.8	252	12.0	.40	E.010	<.04	--	<.002
Feb 13...	0745	6.5	745	14.3	119	5.9	133	6.5	1.0	.038	1.15	1.15	.005
Mar 28...	1145	.19	751	10.8	106	6.4	189	14.1	.21	<.020	E.014	--	<.002
May 22...	1300	.30	745	7.2	77	7.2	174	17.3	.35	.022	.136	.13	.003
Jun 30...	1100	2.2	740	7.1	85	6.7	132	22.9	1.0	<.020	.290	.29	.004
Aug 27...	1330	3.5	750	--	--	6.9	112	22.1	1.3	.081	1.09	1.08	.010
Sep 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, filtrd, mg/L as P (00671)	Phosphorus, water, unfltrd, mg/L as P (00665)	Alum-inum, water, unfltrd recoverable, µg/L (01105)	Chromium, water, unfltrd Arsenic water, unfltrd	Cadmium, water, unfltrd	Chrom-ium, water, unfltrd recoverable, µg/L (01027)	Cobalt, water, unfltrd recoverable, µg/L (01034)	Copper, water, unfltrd recoverable, µg/L (01037)	Iron, water, unfltrd recoverable, µg/L (01042)	Lead, water, unfltrd recoverable, µg/L (01045)	Manganese, water, unfltrd recoverable, µg/L (01051)	Mercury, water, unfltrd recoverable, µg/L (71900)	Molybdenum, water, unfltrd recoverable, 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 recoverable, µg/L (01067)	Selenium, water, unfltrd recoverable, µg/L (01147)	Silver, water, unfltrd recoverable, µg/L (01077)	Zinc, water, unfltrd recoverable, µg/L (01092)	1-Naphthol, water, unfltrd 0.7u GF	2,4-D methyl ester, water, fltrd, µg/L (49295)	2,4-D plus methyl ester, water, fltrd, µg/L as (50470)	2,4-D, water, fltrd, µg/L (66496)	2,4-D, water, fltrd, µg/L (39732)	2,4-DB, water, fltrd, µg/L (38746)	2,6-Diethyl-aniline, water, fltrd, µg/L (82660)	2-Chloro-diethyl-acetanilide, water, fltrd, 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 -6- methyl- aniline water, fltrd, μg/L (61620)	OIET, water, fltrd, μg/L (50355)	3,4-Di- chloro- aniline water, fltrd, μg/L (61625)	3,5-Di- chloro- aniline water, fltrd, μg/L (61627)	Hydroxy carbo- furan, wat flt 0.7u GF	Chloro- 2methyl phenol, water, fltrd, μg/L (49308)	Aceto- chlor, water, fltrd, μg/L (61633)	Aci- fluor- fen, water, fltrd, μg/L (49260)	Ala- chlor, water, fltrd, μg/L (49315)	Aldi- carb sulfone water, fltrd, μg/L (46342)	Aldi- carb sulf- oxide, wat flt 0.7u GF	Aldi- carb, water, fltrd, μg/L (49313)	alpha- Endo- sulfan, water, fltrd, μg/L (34362)
Dec													
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
Feb													
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
Mar													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
May													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
Jun													
30...	<.010	<.040	E.009	E.007	<.040	E.004	<.006	<.040	<.006	<.08	<.060	<.12	<.006
Aug													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
Sep													
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- HCH, water, fltrd, μg/L (34253)	Atra- zine, water, fltrd, μg/L (39632)	Azin- phos- methyl oxon, water, fltrd, 0.7u GF μg/L (61635)	Azin- phos- methyl, water, fltrd, μg/L (82686)	Bendio- carb, water, fltrd, μg/L (50299)	Ben- flur- alin, water, fltrd, 0.7u GF μg/L (82673)	Benomyl water, fltrd, μg/L (50300)	Bensul- furone- methyl, water, fltrd, μg/L (61693)	Ben- tazon, water, fltrd, 0.7u GF μg/L (38711)	Bromo- xynil, water, fltrd, 0.7u GF μg/L (04029)	Bromo- cyl, water, fltrd, 0.7u GF μg/L (49311)	Butyl- ate, water, fltrd, μg/L (04028)	Caf- feine, water, fltrd, μg/L (50305)
Dec													
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
Feb													
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
Mar													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
May													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
Jun													
30...	<.002	.010	<.04	<.120	<.04	<.004	<.040	<.06	<.04	<.02	<.12	<.002	<.060
Aug													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
Sep													
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	Carbaryl, water, filtrd 0.7u GF	Carbo-furan, water, filtrd 0.7u GF	Chlor-amben methyl water, filtrd, (61188)	Chlori-muron-ester, water, filtrd, (50306)	Chlor-pyrifos water, filtrd, (38933)	cis-Permethrin water 0.7u GF	cis-Propiconazole, water, filtrd 0.7u GF	Clopyralid, water, filtrd 0.7u GF	Cyanazine, water, filtrd 0.7u GF	Cycloate, water, filtrd 0.7u GF	Cyfluthrin, water, filtrd 0.7u GF	Iambda-Cyhalothrin, water, filtrd 0.7u GF	Cypermethrin water, filtrd 0.7u GF
Dec													
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
Feb													
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
Mar													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
May													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
Jun													
30...	E.02	<.020	<.10	<.080	<.005	<.010	E.017	<.06	<.020	<.02	<.016	<.020	<.014
Aug													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
Sep													
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 mono-acid, water, filtrd 0.7u GF	DCPA, water, filtrd 0.7u GF	Desulf-inyl-fipro-nil, water, filtrd, (62170)	Diazinon, water, filtrd, (39572)	Dicamba water, filtrd 0.7u GF	Di-chlor-prop, water, filtrd 0.7u GF	Dicropophos, water, filtrd 0.7u GF	Diel-drin, water, filtrd 0.7u GF	Dimethoate, water, filtrd 0.7u GF	Dinoseb water, filtrd 0.7u GF	Diphenamid, water, filtrd 0.7u GF	Disulfoton sulfone water, filtrd 0.7u GF	Disulfoton, water, filtrd 0.7u GF
Dec													
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
Feb													
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
Mar													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
May													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
Jun													
30...	<.02	<.003	E.004	<.005	<.04	<.02	<.08	<.009	<.006	<.04	<.04	<.01	<.04
Aug													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
Sep													
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, water, fltrd 0.7u GF	Endo- sulfan sulfate water, fltrd 0.7u GF	EPTC, water, fltrd 0.7u GF	Ethal- flur- alin, water, fltrd 0.7u GF	Ethion monoxon water, fltrd 0.7u GF	Etho- prop, water, fltrd 0.7u GF	Fenami- phos sulfone water, fltrd 0.7u GF	Fenami- phos sulfide, water, fltrd 0.7u GF	Fenuron water, fltrd 0.7u GF	Desulf- inyl- fipro- nil amide, water fltrd 0.7u GF	Fipro- nil sulfide water, fltrd 0.7u GF	Fipro- nil sulfone water, fltrd 0.7u GF	
	µg/L (49300)	µg/L (61590)	µg/L (82668)	µg/L (82663)	µg/L (61644)	µg/L (82672)	µg/L (61645)	µg/L (61646)	µg/L (61591)	µg/L (49297)	µg/L (62169)	µg/L (62167)	µg/L (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- nil, water, fltrd 0.7u GF	Fluor- meturon water, fltrd 0.7u GF	Fonofos water, fltrd 0.7u GF	Hexa- zinone, water, fltrd 0.7u GF	Imaza- quin, water, fltrd 0.7u GF	Imaze- thapyr, water, fltrd 0.7u GF	Imida- cloprid water, fltrd 0.7u GF	Ipro- dione, water, fltrd 0.7u GF	Isofen- phos, water, fltrd 0.7u GF	Lindane water, fltrd 0.7u GF	Linuron water, fltrd 0.7u GF	Mala- oxon, water, fltrd 0.7u GF	
	µg/L (62166)	µg/L (61694)	µg/L (38811)	µg/L (04095)	µg/L (04025)	µg/L (50356)	µg/L (50407)	µg/L (61695)	µg/L (61593)	µg/L (61594)	µg/L (39341)	µg/L (38478)	µg/L (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-thion, water, filtrd, μg/L (39532)	MCPA, water, filtrd, μg/L (38482)	MCPB, water, filtrd, μg/L (38487)	Meta-laxyl, water, filtrd, μg/L (50359)	Methid-athion, water, filtrd, μg/L (61598)	Methio-carb, water, filtrd 0.7u GF (38501)	Meth-omyl, water, filtrd 0.7u GF (49296)	Methyl-para-oxon, water, filtrd 0.7u GF (61664)	Methyl-para-thion, water, filtrd 0.7u GF (82667)	Metola-chlor, water, filtrd 0.7u GF (39415)	Metri-buzin, water, filtrd 0.7u GF (82630)	Metsul-furon-methyl, water, filtrd 0.7u GF (61697)	Moli-nate, water, filtrd 0.7u GF (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	N-(4-Chloro-phenyl)-N'-methyl-urea, water, filtrd, μg/L (61599)	Naprop-amide, water, filtrd, 0.7u GF (82684)	Neburon, water, filtrd, 0.7u GF (49294)	Nico-sulfuron, water, filtrd, μg/L (50364)	Norflur-azon, water, filtrd 0.7u GF (49293)	Ory-zalin, water, filtrd 0.7u GF (49292)	Oxamyl, water, filtrd 0.7u GF (38866)	Oxy-fluor-fen, water, filtrd 0.7u GF (61600)	p,p'-DDE, water, filtrd 0.7u GF (34653)	Para-thion, water, filtrd 0.7u GF (39542)	Peb-ulate, water, filtrd 0.7u GF (82669)	Pendi-meth-alin, water, filtrd 0.7u GF (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 oxon, water, filtrd, µg/L (61666)	Phorate water, filtrd, µg/L (82664)	Phosmet oxon, water, filtrd, µg/L (61668)	Phosmet water, filtrd, µg/L (61601)	Picloram, water, filtrd, µg/L (49291)	Prometon, water, filtrd, µg/L (04037)	Prometryn, water, filtrd, µg/L (04036)	Propyzamide, water, filtrd, µg/L (82676)	Propachlor, water, filtrd, µg/L (04024)	Propanal, water, filtrd, µg/L (82679)	Propargite, water, filtrd, µg/L (82685)	Propham, water, filtrd, µg/L (49236)	Propiconazole, water, filtrd, µg/L (50471)
Dec 11...	--	--	--	--	--	--	--	--	--	--	--	--	--
Feb 13...	--	--	--	--	--	--	--	--	--	--	--	--	--
Mar 28...	--	--	--	--	--	--	--	--	--	--	--	--	--
May 22...	--	--	--	--	--	--	--	--	--	--	--	--	--
Jun 30...	<.03	<.040	<.05	<.008	<.12	.01	<.006	<.004	<.006	<.006	<.04	<.040	E.03
Aug 27...	--	--	--	--	--	--	--	--	--	--	--	--	--
Sep 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	Propoxur, water, filtrd, µg/L (38538)	Simazine, water, filtrd, µg/L (40435)	Sulfometuron-methyl, water, filtrd, µg/L (50337)	Tebuthiuron, water, filtrd, µg/L (0.7u GF)	Tefluthrin, water, filtrd, µg/L (82670)	Terbacil, water, filtrd, µg/L (61606)	Terbufos, water, filtrd, µg/L (04032)	Terbufos, water, filtrd, µg/L (61674)	Terbu-fos, water, filtrd, µg/L (82675)	Terbutylazine, water, filtrd, µg/L (04022)	Thiobencarb, water, filtrd, µg/L (82681)	trans-Propiconazole, water, filtrd, µg/L (79847)	Triallate, water, filtrd, µg/L (82678)	Tributephos, water, filtrd, µg/L (61610)
Dec 11...	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Feb 13...	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mar 28...	--	--	--	--	--	--	--	--	--	--	--	--	--	--
May 22...	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Jun 30...	<.040	.102	E.002	<.02	<.003	<.040	<.04	<.02	<.01	<.010	E.05	<.006	<.035	
Aug 27...	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sep 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, water, filtrd 0.7u GF μg/L (49235)	Tri-flur-alin, water, filtrd 0.7u GF μg/L (82661)	Di-chlor- vos, water, filtrd, μg/L (38775)	Sus-pended sediment concen- tration mg/L (80154)	Sus-pended sediment dis- charge, tons/d (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