



Water-Data Report 2011

0208524090 MOUNTAIN CREEK AT SECONDARY ROAD 1617 NEAR BAHAMA, NC

Neuse Basin
Upper Neuse Subbasin

LOCATION.--Lat 36°08'59", long 78°53'48" referenced to North American Datum of 1983, Durham County, NC, Hydrologic Unit 03020201, on right bank at bridge on Secondary Road 1617 and 1.6 mi southwest of Bahama.

DRAINAGE AREA.--7.97 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1994 to current year.

GAGE.--Water-stage recorder. Datum of gage is 360.95 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Maximum gage height for period of record, from floodmarks, occurred September 6, 1996. No flow occurs some days most years.

0208524090 MOUNTAIN CREEK AT SECONDARY ROAD 1617 NEAR BAHAMA, NC—Continued

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	5.8	0.70	1.8	1.1	0.91	4.8	6.7	0.84	e0.60	0.19	0.15	0.10
2	2.0	0.66	1.4	1.7	1.4	2.1	4.3	0.81	0.51	0.12	0.12	0.11
3	1.3	0.66	0.98	1.7	1.1	1.6	3.2	0.76	0.42	0.09	0.11	0.11
4	0.90	1.0	0.88	1.3	1.3	1.4	2.8	e9.2	0.34	0.08	0.10	0.10
5	0.70	1.4	0.97	1.2	13	1.2	3.0	e7.6	0.31	0.09	0.09	0.09
6	0.58	0.89	0.84	1.2	4.9	4.3	2.3	4.2	0.26	8.1	0.12	9.4
7	0.49	0.70	0.74	1.3	2.8	6.1	2.1	5.9	0.21	11	0.12	18
8	0.41	0.63	0.59	1.1	2.4	2.9	1.9	3.4	0.20	2.2	0.09	2.4
9	0.38	0.59	0.56	0.93	1.9	2.2	2.5	2.6	0.19	5.2	0.08	1.5
10	0.34	0.55	0.53	0.86	1.7	5.9	6.3	1.9	0.18	1.5	0.07	1.0
11	0.32	0.51	0.54	1.0	1.4	6.4	3.5	1.8	0.29	0.86	0.07	0.74
12	0.31	0.52	0.90	1.1	1.4	3.4	2.6	1.5	0.38	0.66	0.07	0.60
13	0.33	0.51	1.2	0.97	1.2	2.5	2.3	1.6	0.32	0.54	2.5	0.50
14	0.96	0.41	0.80	0.93	1.2	2.0	1.8	6.0	0.24	0.43	0.31	0.44
15	0.94	0.44	0.64	0.88	1.1	1.7	2.0	4.8	0.20	0.30	0.17	0.42
16	0.69	0.54	1.2	0.94	0.99	3.4	14	2.2	0.15	0.22	0.14	0.39
17	0.60	0.75	2.1	0.95	1.0	2.9	7.8	2.0	0.13	0.20	0.11	0.43
18	0.56	0.65	1.7	1.1	1.1	2.1	3.2	2.1	0.12	0.20	0.10	0.46
19	0.55	0.61	1.5	1.1	1.1	1.8	2.5	1.5	0.11	0.18	0.10	0.43
20	0.57	0.57	1.2	0.96	0.89	1.5	2.1	1.2	0.09	0.17	0.11	0.44
21	0.58	0.56	1.0	0.97	0.91	1.4	1.7	0.96	0.09	0.15	0.10	0.63
22	0.51	0.57	0.97	0.86	0.91	1.4	1.6	0.79	0.09	0.12	0.09	0.79
23	0.47	0.65	0.85	0.75	0.76	1.4	2.1	5.3	0.08	0.11	0.08	1.0
24	0.46	0.64	0.74	0.76	0.78	21	1.7	1.6	0.08	0.17	0.07	0.81
25	0.53	0.60	0.73	0.80	1.0	4.3	1.3	0.91	0.11	0.99	0.07	0.65
26	1.5	0.67	1.1	2.2	0.84	3.0	1.2	0.65	0.08	0.36	0.06	0.53
27	1.3	0.67	0.96	2.5	0.78	9.0	1.4	2.2	0.08	0.17	0.12	0.45
28	1.1	0.58	0.82	1.7	1.6	5.0	2.1	2.9	0.63	0.14	0.13	0.63
29	0.90	0.55	0.87	1.4	---	3.3	1.3	1.3	1.4	0.12	1.3	0.48
30	0.74	0.57	0.90	1.5	---	33	0.99	0.82	0.36	0.13	0.34	0.44
31	0.73	---	0.96	1.0	---	16	---	e0.70	---	0.17	0.13	---
Total	27.55	19.35	30.97	36.76	50.37	159.0	92.29	80.04	8.25	34.96	7.22	44.07
Mean	0.89	0.65	1.00	1.19	1.80	5.13	3.08	2.58	0.28	1.13	0.23	1.47
Max	5.8	1.4	2.1	2.5	13	33	14	9.2	1.4	11	2.5	18
Min	0.31	0.41	0.53	0.75	0.76	1.2	0.99	0.65	0.08	0.08	0.06	0.09
Med	0.58	0.61	0.90	1.1	1.1	2.9	2.2	1.8	0.20	0.19	0.11	0.49
Ac-ft	55	38	61	73	100	315	183	159	16	69	14	87
Cfsm	0.11	0.08	0.13	0.15	0.23	0.64	0.39	0.32	0.03	0.14	0.03	0.18
In.	0.13	0.09	0.14	0.17	0.24	0.74	0.43	0.37	0.04	0.16	0.03	0.21

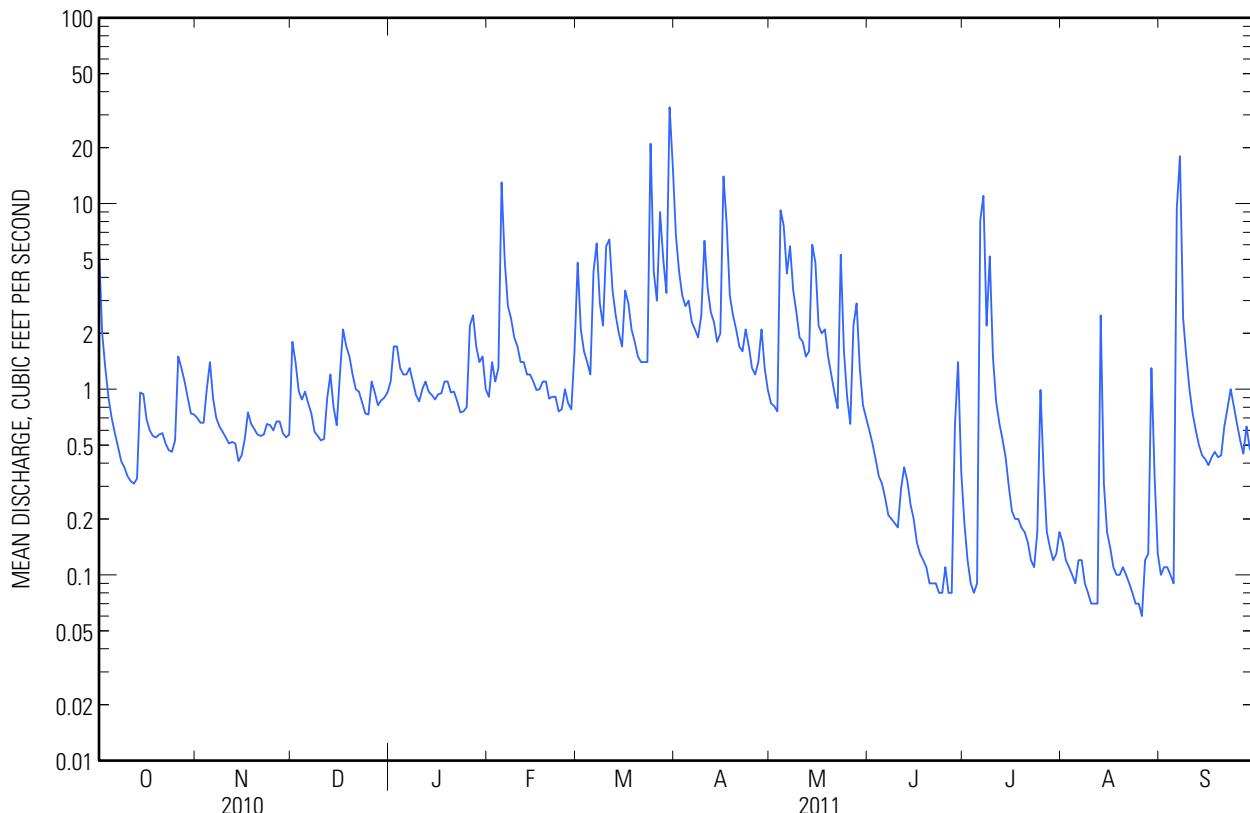
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	3.68	4.84	6.60	8.80	10.3	13.7	8.97	4.15	5.18	2.75	2.44	9.31
Max	32.9	17.9	21.8	27.3	36.2	49.9	30.0	15.1	29.7	9.12	10.6	74.0
(WY)	(2003)	(2010)	(2010)	(1998)	(1998)	(1998)	(2003)	(2003)	(1995)	(2006)	(2004)	(1996)
Min	0.03	0.06	0.26	0.53	1.55	1.12	1.14	0.19	0.27	0.10	0.01	0.00
(WY)	(1999)	(1999)	(2002)	(2008)	(2002)	(2006)	(2002)	(2002)	(2011)	(2002)	(1999)	(2007)

SUMMARY STATISTICS

	Calendar Year 2010	Water Year 2011	Water Years 1995 - 2011	
Annual total	2,319.70	590.83		
Annual mean	6.36	1.62	6.70	
Highest annual mean			17.3	2003
Lowest annual mean			1.62	2011
Highest daily mean	274	Jan 25	33	Mar 30
Lowest daily mean	0.10	Sep 16	0.06	Aug 26
Annual seven-day minimum	0.11	Sep 18	0.08	Aug 20
Maximum peak flow			124	Jul 6
Maximum peak stage			5.77	Jul 6
Instantaneous low flow			0.05	Aug 26
Annual runoff (ac-ft)	4,600	1,170	4,850	
Annual runoff (cfs-m)	0.797	0.203	0.840	
Annual runoff (inches)	10.83	2.76	11.42	
10 percent exceeds	11	3.2	12	
50 percent exceeds	1.3	0.86	1.8	
90 percent exceeds	0.27	0.12	0.09	

^a See Remarks.



0208524090 MOUNTAIN CREEK AT SECONDARY ROAD 1617 NEAR BAHAMA, NC—Continued**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--Water years 1988-91, 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. For the period February 1988 through June 1989 the inorganic chemical data and trace metal data were analyzed by the city of Durham's Brown Water Treatment Plant Laboratory.

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

Part 1 of 21

[%, percent; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Medium name	Sample type	Barometric pressure, mm Hg (00025)	Discharge, instantane- ous, ft ³ /s (00061)	Dissolved oxygen, water, unfiltered, mg/L (00300)	Dissolved oxygen, water, unfiltered, % saturation (00301)	pH, water, unfiltered, field, standard units (00400)	Specific conductance, water, unfiltered, µS/cm at 25 °C (00095)
10-01-2010	1345	Surface water	Regular	740	5.0	8.4	96	6.7	85
11-23-2010	1230	Surface water	Regular	755	.60	10.6	102	6.7	119
12-21-2010	1245	Surface water	Regular	753	1.0	13.1	98	6.2	131
02-25-2011	1245	Surface water	Regular	747	1.1	11.5	110	6.9	127
05-04-2011	1200	Surface water	Regular	757	4.3	8.9	93	6.0	94
07-22-2011	1115	Surface water	Regular	753	.14	8.1	102	7.5	126
09-07-2011	1115	Surface water	Regular	752	9.2	7.9	92	6.0	85

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

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[%, percent; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Ammonia plus organic nitrogen, water, unfiltered, mg/L as N (00625)		Nitrate plus nitrite, water, filtered, mg/L as N (00631)		Nitrate, water, filtered, mg/L as N (00618)		Nitrite, water, filtered, mg/L as N (00613)	Orthophosphate, water, filtered, mg/L as P (00671)	Phosphorus, water, unfiltered, mg/L as P (00665)
		Temperature, water, °C (00010)	Ammonia, water, filtered, mg/L as N (00608)	nitrite, water, filtered, mg/L as N (00631)	Nitrate, water, filtered, mg/L as N (00618)	Nitrite, water, filtered, mg/L as N (00613)	Orthophosphate, water, filtered, mg/L as P (00671)	Phosphorus, water, unfiltered, mg/L as P (00665)		
10-01-2010	1345	20.7	.61	.011	.405	.401	.004	.033	.091	
11-23-2010	1230	13.2	.19	<.010	.026	.026	<.001	.009	.013	
12-21-2010	1245	2.7	.17	<.010	.304	.302	.002	.010	.018	
02-25-2011	1245	12.7	.29	<.010	.261	.258	.003	.008	.022	
05-04-2011	1200	17.4	1.0	.061	.199	.187	.012	.030	.176	
07-22-2011	1115	26.9	.29	.015	.415	.413	.002	.021	.031	
09-07-2011	1115	22.6	.92	.031	1.87	1.86	.012	.062	.165	

0208524090 MOUNTAIN CREEK AT SECONDARY ROAD 1617 NEAR BAHAMA, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

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[%, percent; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Aluminum, water, unfiltered, recoverable, µg/L (01105)	Cadmium, water, unfiltered, recoverable, µg/L (01027)	Chromium, water, unfiltered, recoverable, µg/L (01034)	Cobalt, water, unfiltered, recoverable, microgram s per liter (01037)	Copper, water, unfiltered, recoverable, µg/L (01042)	Iron, water, unfiltered, recoverable, µg/L (01045)	Lead, water, unfiltered, recoverable, µg/L (01051)	Manganese, water, unfiltered, recoverable, µg/L (01055)	Mercury, water, unfiltered, recoverable, µg/L (71900)
10-01-2010	1345	226	<.05	<.21	.25	2.3	652	.57	66.4	<.005
11-23-2010	1230	41	<.05	<.21	.07	3.0	306	.09	13.3	<.005
12-21-2010	1245	--	--	--	--	--	--	--	--	--
02-25-2011	1245	--	--	--	--	--	--	--	--	--
05-04-2011	1200	--	--	--	--	--	--	--	--	--
07-22-2011	1115	--	--	--	--	--	--	--	--	--
09-07-2011	1115	679	<.05	.41	.49	2.6	994	1.26	193	.005

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

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[%, percent; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Molybdenum, water, unfiltered, recoverable, microgram s per liter (01062)	Nickel, water, unfiltered, recoverable, µg/L (01067)	Silver, water, unfiltered, recoverable, µg/L (01077)	Zinc, water, unfiltered, recoverable, µg/L (01092)	Arsenic, water, unfiltered, µg/L (01002)	Selenium, water, unfiltered, µg/L (01147)	(1- Naphthol, water, filtered (0.7 micron glass fiber), recoverable, µg/L (49295)	2,4-D, methyl ester, water, filtered, recoverable, µg/L (50470)	2,4-D, water, filtered, recoverable, µg/L (39732)
10-01-2010	1345	.1	.29	.02	<2.4	.63	.15	--	--	--
11-23-2010	1230	.1	.14	<.01	<2.4	.33	.08	--	--	--
12-21-2010	1245	--	--	--	--	--	--	<.036	<.200	<.06
02-25-2011	1245	--	--	--	--	--	--	--	--	--
05-04-2011	1200	--	--	--	--	--	--	--	--	--
07-22-2011	1115	--	--	--	--	--	--	--	--	--
09-07-2011	1115	.1	.54	<.01	3.2	.74	.14	--	--	--

0208524090 MOUNTAIN CREEK AT SECONDARY ROAD 1617 NEAR BAHAMA, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

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[%, percent; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	2,4-DB, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (38746)	2-Chloro- aniline, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (82660)	2,6-Diethyl- aniline, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (61618)	2-Chloro-4-isopropyl- acetanilide, water, filtered, recover- able, µg/L (04040)	2-Chloro-6-amino-6-s-triazine, water, filtered, recover- able, µg/L (04038)	2-Ethyl-6-methyl- aniline, water, filtered, recover- able, µg/L (61620)	2-Hydroxy- 4-iso-propyl- amino-6- ethyl- amino-s-triazine, water, filtered, recover- able, µg/L (50355)	3,4-Dichloro- aniline, water, filtered, recover- able, µg/L (61625)	3,5-Dichloro- aniline, water, filtered, recover- able, µg/L (61627)
10-01-2010	1345	--	--	--	--	--	--	--	--	--
11-23-2010	1230	--	--	--	--	--	--	--	--	--
12-21-2010	1245	<.02	<.006	<.010	E .012	<.06	<.010	<.060	<.004	<.004
02-25-2011	1245	--	--	--	--	--	--	--	--	--
05-04-2011	1200	--	--	--	--	--	--	--	--	--
07-22-2011	1115	--	--	--	--	--	--	--	--	--
09-07-2011	1115	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

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[%, percent; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	3-Hydroxy- carbo-furan, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (49308)	4-Chloro-2-methyl- phenol, water, filtered, recover- able, µg/L (61633)	Aceto-chlor, water, filtered, recover- able, µg/L (49260)	Acifluorfen, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (49315)	Alachlor, water, filtered, recover- able, µg/L (46342)	Aldicarb sulfone, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (49313)	Aldicarb sulfoxide, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (49314)	Aldicarb, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (49312)	alpha-Endo-sulfan, water, filtered, recover- able, µg/L (34362)
10-01-2010	1345	--	--	--	--	--	--	--	--	--
11-23-2010	1230	--	--	--	--	--	--	--	--	--
12-21-2010	1245	<.040	<.005	<.010	<.040	<.008	<.08	<.060	<.12	<.006
02-25-2011	1245	--	--	--	--	--	--	--	--	--
05-04-2011	1200	--	--	--	--	--	--	--	--	--
07-22-2011	1115	--	--	--	--	--	--	--	--	--
09-07-2011	1115	--	--	--	--	--	--	--	--	--

0208524090 MOUNTAIN CREEK AT SECONDARY ROAD 1617 NEAR BAHAMA, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

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[%, percent; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Azinphos-								Bentazon, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (38711)
		alpha-HCH, water, filtered, recoverable, µg/L (34253)	Atrazine, water, filtered, recoverable, µg/L (39632)	Azinphos-methyl, oxygen analog, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (61635)	Bendiocarb, water, filtered, recoverable, µg/L (82686)	Benfluralin, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (50299)	Benomyl, water, filtered, recoverable, µg/L (50300)	Bensulfuron-methyl, water, filtered, recoverable, µg/L (61693)		
10-01-2010	1345	--	--	--	--	--	--	--	--	--
11-23-2010	1230	--	--	--	--	--	--	--	--	--
12-21-2010	1245	<.004	<.008	<.04	<.120	<.04	<.014	<.060	<.06	<.06
02-25-2011	1245	--	--	--	--	--	--	--	--	--
05-04-2011	1200	--	--	--	--	--	--	--	--	--
07-22-2011	1115	--	--	--	--	--	--	--	--	--
09-07-2011	1115	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

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[%, percent; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Brom-				Carbo-				Chlorpyrifos water, filtered, recoverable, µg/L (38933)
		Bromoxynil, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (04029)	Butylate, water, filtered, recoverable, µg/L (49311)	Carbaryl, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (04028)	Furan, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (49310)	Chloramben, methyl ester, water, filtered, recoverable, µg/L (49309)	Chlorimuron-ethyl, water, filtered, recoverable, µg/L (61188)	Chlorpyrifos water, filtered, recoverable, µg/L (61188)		
10-01-2010	1345	--	--	--	--	--	--	--	--	
11-23-2010	1230	--	--	--	--	--	--	--	--	
12-21-2010	1245	<.06	<.12	<.004	<.04	<.040	<.10	<.080	<.06	<.004
02-25-2011	1245	--	--	--	--	--	--	--	--	
05-04-2011	1200	--	--	--	--	--	--	--	--	
07-22-2011	1115	--	--	--	--	--	--	--	--	
09-07-2011	1115	--	--	--	--	--	--	--	--	

0208524090 MOUNTAIN CREEK AT SECONDARY ROAD 1617 NEAR BAHAMA, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

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[%, percent; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	cis-Permethrin, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82687)	cis-Propiconazole, water, filtered, recoverable, µg/L (79846)	Clopyralid, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (49305)	Cyanazine, water, filtered, recoverable, µg/L (04041)	Cycloate, water, filtered, recoverable, µg/L (04031)	Cyfluthrin, water, filtered, recoverable, µg/L (61585)	Cypermethrin, water, filtered, recoverable, µg/L (61586)	Dacthal monoacid, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (49304)	DCPA, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82682)
10-01-2010	1345	--	--	--	--	--	--	--	--	--
11-23-2010	1230	--	--	--	--	--	--	--	--	--
12-21-2010	1245	< .010	< .008	< .06	< .022	< .04	< .016	< .020	< .04	< .008
02-25-2011	1245	--	--	--	--	--	--	--	--	--
05-04-2011	1200	--	--	--	--	--	--	--	--	--
07-22-2011	1115	--	--	--	--	--	--	--	--	--
09-07-2011	1115	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

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[%, percent; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Desulfinyl-fipronil, water, filtered, recoverable, µg/L (62169)	Desulfinyl-fipronil, water, filtered, recoverable, µg/L (62170)	Dicamba, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (39572)	prop, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (38442)	Dichlorvos, water, filtered, recoverable, µg/L (49302)	Dicrotophos, water, filtered, recoverable, µg/L (38775)	Dieldrin, water, filtered, recoverable, µg/L (38454)	Dimethoate, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (39381)	DCPA, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82662)
10-01-2010	1345	--	--	--	--	--	--	--	--	--
11-23-2010	1230	--	--	--	--	--	--	--	--	--
12-21-2010	1245	< .029	< .012	< .006	< .04	< .04	< .04	< .08	< .008	< .006
02-25-2011	1245	--	--	--	--	--	--	--	--	--
05-04-2011	1200	--	--	--	--	--	--	--	--	--
07-22-2011	1115	--	--	--	--	--	--	--	--	--
09-07-2011	1115	--	--	--	--	--	--	--	--	--

0208524090 MOUNTAIN CREEK AT SECONDARY ROAD 1617 NEAR BAHAMA, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

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[%, percent; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius;
 µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Dinoseb, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (49301)	Di- phenamid, water, filtered, recover- able, µg/L (04033)	Disulfoton sulfone, water, filtered, recover- able, µg/L (61640)	Disulfoton, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (82677)	Diuron, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (49300)	Endosulfan sulfate, water, filtered, recover- able, µg/L (61590)	EPTC, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (82668)	Ethal- fluralin, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (82663)	Ethion monoxon, water, filtered, recover- able, µg/L (61644)
10-01-2010	1345	--	--	--	--	--	--	--	--	--
11-23-2010	1230	--	--	--	--	--	--	--	--	--
12-21-2010	1245	< .04	< .04	< .01	< .04	< .04	< .016	< .006	< .006	< .02
02-25-2011	1245	--	--	--	--	--	--	--	--	--
05-04-2011	1200	--	--	--	--	--	--	--	--	--
07-22-2011	1115	--	--	--	--	--	--	--	--	--
09-07-2011	1115	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

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[%, percent; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius;
 µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Ethoprop, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (82346)	Fenami- phos sulfone, water, filtered, recover- able, µg/L (82672)	Fenami- phos sulfoxide, water, filtered, recover- able, µg/L (61645)	Fenami- phos, water, filtered, recover- able, µg/L (61646)	Fenuron, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (61591)	Fipronil sulfide, water, filtered, recover- able, µg/L (49297)	Fipronil sulfone, water, filtered, recover- able, µg/L (62167)	Fipronil water, filtered, recover- able, µg/L (62168)	Fipronil, water, filtered, recover- able, µg/L (62166)
10-01-2010	1345	--	--	--	--	--	--	--	--	--
11-23-2010	1230	--	--	--	--	--	--	--	--	--
12-21-2010	1245	< .008	< .016	< .054	< .08	< .03	< .06	< .012	< .024	< .018
02-25-2011	1245	--	--	--	--	--	--	--	--	--
05-04-2011	1200	--	--	--	--	--	--	--	--	--
07-22-2011	1115	--	--	--	--	--	--	--	--	--
09-07-2011	1115	--	--	--	--	--	--	--	--	--

0208524090 MOUNTAIN CREEK AT SECONDARY ROAD 1617 NEAR BAHAMA, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

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[%, percent; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius;
 µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Fluome-turon, water, water, filtered, recoverable, µg/L (61694)	Flumetsulam, water, filtered, recoverable, µg/L (38811)	Fonofos, water, filtered, recoverable, µg/L (04095)	Hexazinone, water, filtered, recoverable, µg/L (04025)	Imazaquin, water, filtered, recoverable, µg/L (50356)	Imazethapyr, water, filtered, recoverable, µg/L (50407)	Imidacloprid, water, filtered, recoverable, µg/L (61695)	Iprodione, water, filtered, recoverable, µg/L (61593)	Isofen-phos, water, filtered, recoverable, µg/L (61594)
10-01-2010	1345	--	--	--	--	--	--	--	--	--
11-23-2010	1230	--	--	--	--	--	--	--	--	--
12-21-2010	1245	< .06	< .04	< .005	< .008	< .06	< .06	< .060	< .014	< .006
02-25-2011	1245	--	--	--	--	--	--	--	--	--
05-04-2011	1200	--	--	--	--	--	--	--	--	--
07-22-2011	1115	--	--	--	--	--	--	--	--	--
09-07-2011	1115	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

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[%, percent; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius;
 µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Lambdacyhalothrin, water, filtered, recoverable, µg/L (61595)	Linuron, water, filtered Lindane, water, filtered, recoverable, µg/L (39341)	MCPA, water, filtered Malaoxonon, water, filter), recoverable, µg/L (38478)	MCPB, water, filtered Malathion, water, filtered, recoverable, µg/L (61652)	Methidathion, water, filtered, recoverable, µg/L (39532)	MCPA, water, filtered Metalaxyl, water, filtered, recoverable, µg/L (38482)	MCPB, water, filtered Metalaxyl, water, filtered, recoverable, µg/L (38487)	Methidathion, water, filtered, recoverable, µg/L (50359)	MCPB, water, filtered Metalaxyl, water, filtered, recoverable, µg/L (61598)
10-01-2010	1345	--	--	--	--	--	--	--	--	--
11-23-2010	1230	--	--	--	--	--	--	--	--	--
12-21-2010	1245	< .010	< .004	< .04	< .022	< .016	< .04	< .20	< .04	< .012
02-25-2011	1245	--	--	--	--	--	--	--	--	--
05-04-2011	1200	--	--	--	--	--	--	--	--	--
07-22-2011	1115	--	--	--	--	--	--	--	--	--
09-07-2011	1115	--	--	--	--	--	--	--	--	--

0208524090 MOUNTAIN CREEK AT SECONDARY ROAD 1617 NEAR BAHAMA, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

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[%, percent; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Methio-carb, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (38501)	Methomyl, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (49296)	Methyl paraoxon, water, filtered, recover- able, µg/L (61664)	Methyl parathion, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (82667)	Metola-chlor, water, filtered, recover- able, µg/L (39415)	Metribuzin, water, filtered, recover- able, µg/L (82630)	Metsulfuron-methyl, water, filtered, recover- able, µg/L (61697)	Molinate, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (82671)	Myclobutanil, water, filtered, recover- able, µg/L (61599)
10-01-2010	1345	--	--	--	--	--	--	--	--	--
11-23-2010	1230	--	--	--	--	--	--	--	--	--
12-21-2010	1245	< .040	< .120	< .01	< .008	< .020	< .012	< .14	< .004	< .010
02-25-2011	1245	--	--	--	--	--	--	--	--	--
05-04-2011	1200	--	--	--	--	--	--	--	--	--
07-22-2011	1115	--	--	--	--	--	--	--	--	--
09-07-2011	1115	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

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[%, percent; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	N-(4-Chlorophenyl)-N'-methylurea, water, filtered, recover- able, µg/L (61692)	Napropamide, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (82684)	Neburon, water, glass fiber filter), recover- able, µg/L (49294)	Nicosulfuron, water, filtered, recover- able, µg/L (50364)	Norflurazon, water, glass fiber filter), recover- able, µg/L (49293)	Oryzalin, water, glass fiber filter), recover- able, µg/L (49292)	Oxamyl, water, glass fiber filter), recover- able, µg/L (38866)	Oxyfluorfen, water, filtered, recover- able, µg/L (61600)	p,p'-DDE, water, filtered, recover- able, µg/L (34653)
10-01-2010	1345	--	--	--	--	--	--	--	--	--
11-23-2010	1230	--	--	--	--	--	--	--	--	--
12-21-2010	1245	< .06	< .008	< .02	< .10	< .04	< .04	< .12	< .006	< .002
02-25-2011	1245	--	--	--	--	--	--	--	--	--
05-04-2011	1200	--	--	--	--	--	--	--	--	--
07-22-2011	1115	--	--	--	--	--	--	--	--	--
09-07-2011	1115	--	--	--	--	--	--	--	--	--

0208524090 MOUNTAIN CREEK AT SECONDARY ROAD 1617 NEAR BAHAMA, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

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[%, percent; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Pendi-			Phorate,			Phosmet			Picloram,			
		Pebulate, water, filtered	methalin, water, filtered	Parathion, water, filtered, recover-	Phorate oxygen analog, water, filtered, recover-	water, filtered	Phosmet oxygen analog, water, filtered, recover-	Phosmet, water, filtered, recover-	(0.7 micron glass fiber filter), (82669)	(0.7 micron glass fiber filter), (82683)	(0.7 micron glass fiber filter), (61666)	(0.7 micron glass fiber filter), (61668)	(0.7 micron glass fiber filter), (61601)	(0.7 micron glass fiber filter), (49291)
10-01-2010	1345	--	--	--	--	--	--	--	--	--	--	--	--	--
11-23-2010	1230	--	--	--	--	--	--	--	--	--	--	--	--	--
12-21-2010	1245	< .020	< .016	< .012	< .03	< .020	< .05	< .140	< .12	.008				
02-25-2011	1245	--	--	--	--	--	--	--	--	--	--	--	--	--
05-04-2011	1200	--	--	--	--	--	--	--	--	--	--	--	--	--
07-22-2011	1115	--	--	--	--	--	--	--	--	--	--	--	--	--
09-07-2011	1115	--	--	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

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[%, percent; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Propanil,			Propargite,			Propham,			Propicon-			Propoxur,		
		Propa- chlor, water, filtered, recover-	water, filtered	(0.7 micron glass fiber filter), (04024)	water, filtered	(0.7 micron glass fiber filter), (82679)	water, filtered	(0.7 micron glass fiber filter), (82685)	water, filtered	(0.7 micron glass fiber filter), (49236)	azole, water, filtered, recover-	(0.7 micron glass fiber filter), (50471)	(0.7 micron glass fiber filter), (38538)	water, filtered	(0.7 micron glass fiber filter), (82676)	(0.7 micron glass fiber filter), (38548)
10-01-2010	1345	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11-23-2010	1230	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12-21-2010	1245	< .006	< .006	< .010	< .02	< .040	< .04	< .060	< .004	< .04						
02-25-2011	1245	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05-04-2011	1200	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07-22-2011	1115	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
09-07-2011	1115	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

0208524090 MOUNTAIN CREEK AT SECONDARY ROAD 1617 NEAR BAHAMA, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

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[%, percent; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Tebu-thiuron, Sulfo-meturon- Simazine, water, filtered, recover- able, µg/L (04035)	water, filtered (50337)	Tefluthrin, (0.7 micron glass fiber filter), recover- able, µg/L (82670)	Terbacil, water, filtered (0.7 micron water, filtered, filter), recover- able, µg/L (61606)	Terbacil, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (82665)	Terbufos oxygen analog sulfone, water, filtered, recover- able, µg/L (04032)	Terbufos, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (61674)	Terbufos, water, filtered (0.7 micron water, filtered, recover- able, µg/L (82675)	Terbutyl- azine, water, filtered, recover- able, µg/L (04022)
10-01-2010	1345	--	--	--	--	--	--	--	--	--
11-23-2010	1230	--	--	--	--	--	--	--	--	--
12-21-2010	1245	< .006	< .060	< .03	< .010	< .024	< .040	< .04	< .02	< .01
02-25-2011	1245	--	--	--	--	--	--	--	--	--
05-04-2011	1200	--	--	--	--	--	--	--	--	--
07-22-2011	1115	--	--	--	--	--	--	--	--	--
09-07-2011	1115	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

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[%, percent; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Thioben-carb, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (82681)	Triallate, Propicon-azole, water, filtered, recover- able, µg/L (79847)	Triclopyr, Tribuphos, (0.7 micron glass fiber filter), recover- able, µg/L (82678)	Trifluralin, water, filtered (0.7 micron water, filtered, filter), recover- able, µg/L (61610)	2,4-D plus 2,4-D methyl ester, sum on a molar basis, microgram s per liter as 2,4-D (82661)	Caffeine, water, filtered, recover- able, µg/L (66496)	Suspended sediment concentra- tion, mg/L (50305)
10-01-2010	1345	--	--	--	--	--	--	12
11-23-2010	1230	--	--	--	--	--	--	4
12-21-2010	1245	< .016	< .01	< .005	< .018	< .08	< .018	< .06
02-25-2011	1245	--	--	--	--	--	--	5
05-04-2011	1200	--	--	--	--	--	--	156
07-22-2011	1115	--	--	--	--	--	--	4
09-07-2011	1115	--	--	--	--	--	--	41

0208524090 MOUNTAIN CREEK AT SECONDARY ROAD 1617 NEAR BAHAMA, NC—Continued

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO
SEPTEMBER 2011**

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[%; percent; N, nitrogen; P, phosphorus;
ft³/s, cubic feet per second; mg/L,
milligrams per liter; mm Hg, millimeters
of mercury; °C, degrees Celsius; µS/cm,
microsiemens per centimeter; µg/L,
micrograms per liter; --, no data; <, less
than; E, estimated]

Date	Sample start time	Suspended sediment discharge, tons per day (80155)
10-01-2010	1345	.16
11-23-2010	1230	.01
12-21-2010	1245	.01
02-25-2011	1245	.01
05-04-2011	1200	1.8
07-22-2011	1115	.00
09-07-2011	1115	1.0