



Water-Data Report 2010

**0208524088 MOUNTAIN CREEK AT SECONDARY ROAD 1616 NEAR BAHAMA, NC**

Neuse Basin  
Upper Neuse Subbasin

LOCATION.--Lat 36°09'08", long 78°54'09" referenced to North American Datum of 1983, Durham County, NC, Hydrologic Unit 03020201, at bridge on Secondary Road 1616, 1.8 mi southeast of Bahama.

DRAINAGE AREA.--7.35 mi<sup>2</sup>.

**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--Water years 2009-10.

REMARKS.--Station is operated in cooperation with the North Carolina Department of Transportation. Water-discharge records for Mountain Creek at Secondary Road 1617 near Bahama, NC (station 0208524090) are used for water-quality samples collected at this location.

**WATER-QUALITY DATA  
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**

Part 1 of 13

[%, percent; CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; P, phosphorus; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; --, no data; <, less than; E, estimated; M, presence verified but not quantified]

Begin date	Begin time	End date	End time	Medium name	Sample type	Barometric pressure, mm Hg (00025)	Discharge, instantaneous, ft <sup>3</sup> /s (00061)	Dissolved oxygen, water, unfiltered, mg/L (00300)	Dissolved oxygen, water, unfiltered, % saturation (00301)
10-08-2009	1045	--	--	Surface water	Regular	760	.23	7.1	72
10-28-2009	0333	10-28-2009	1213	Surface water	Composite (time)	--	--	--	--
11-17-2009	1145	--	--	Surface water	Regular	760	4.7	9.7	91
12-02-2009	1408	12-03-2009	1347	Surface water	Composite (time)	--	--	--	--
12-10-2009	0830	--	--	Surface water	Regular	758	21	10.2	89
01-05-2010	1230	--	--	Surface water	Regular	754	2.5	13.8	100
01-17-2010	0514	01-18-2010	0453	Surface water	Composite (time)	--	--	--	--
02-05-2010	1210	02-06-2010	1149	Surface water	Composite (time)	--	--	--	--
02-16-2010	1345	--	--	Surface water	Regular	750	9.5	12.6	101
03-23-2010	0930	--	--	Surface water	Regular	755	5.0	9.4	85
03-29-2010	0030	03-30-2010	0410	Surface water	Composite (time)	--	--	--	--
04-21-2010	1615	--	--	QC sample - Artificial	Blank	--	--	--	--

## 0208524088 MOUNTAIN CREEK AT SECONDARY ROAD 1616 NEAR BAHAMA, NC—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**

Part 2 of 13

[%, percent; CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; P, phosphorus; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; --, no data; <, less than; E, estimated; M, presence verified but not quantified]

Begin date	pH, water, unfiltered, field, standard units (00400)	Specific conduc tance, water, unfiltered, μS/cm at 25 °C (00095)	Tempera ture, water, °C (00010)	Sampler type (84164)	Sampling method (82398)	Dissolved solids dried at 105 degrees Celsius, water, filtered, milligrams per liter (00515)	Dissolved solids dried at 180 °C, water, filtered, mg/L (70300)	Hardness, water, mg/L as CaCO <sub>3</sub> (00900)
10-08-2009	6.7	130	15.8	Grab sample	Grab sample(dip)	77	84	43.2
10-28-2009	6.7	113	--	Sampler point auto	Point sample	73	81	33.5
11-17-2009	6.7	86	12.2	Grab sample	Grab sample(dip)	68	70	25.9
12-02-2009	6.6	58	--	Sampler point auto	Point sample	59	49	18.0
12-10-2009	6.1	61	8.9	US DH-81 Teflon	EWI	58	52	18.5
01-05-2010	5.9	86	1.7	US DH-81 Teflon	EWI	53	71	24.5
01-17-2010	6.8	70	--	Sampler point auto	Point sample	63	56	19.2
02-05-2010	7.3	64	--	Sampler point auto	Point sample	52	57	14.1
02-16-2010	6.9	91	5.3	US DH-81 Teflon	EWI	75	77	22.4
03-23-2010	7.1	95	10.7	US DH-81 Teflon	EWI	--	49	27.1
03-29-2010	6.8	63	--	Sampler point auto	Point sample	53	54	18.4
04-21-2010	--	--	--	Sampler point auto	Point sample	--	< 10	< .18

## 0208524088 MOUNTAIN CREEK AT SECONDARY ROAD 1616 NEAR BAHAMA, NC—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**

Part 3 of 13

[%, percent; CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; P, phosphorus; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; --, no data; <, less than; E, estimated; M, presence verified but not quantified]

Begin date	Suspended solids, water, unfiltered, mg/L (00530)	Total solids dried at 105 degrees Celsius, water, unfiltered, milligrams per liter (00500)	Calcium, water, filtered, mg/L (00915)	Magne sium, water, filtered, mg/L (00925)	Potassium, water, filtered, mg/L (00935)	Sodium, water, filtered, mg/L (00930)	Alkalinity, water, filtered, fixed endpoint (pH 4.5)	Alkalinity, water, filtered, inflection- point, incremental titration method, field, mg/L as CaCO <sub>3</sub> (39086)	Bicarbon ate, water, filtered, inflection- point, incremental titration method, field, mg/L (00453)
							titration, laboratory, mg/L as CaCO <sub>3</sub> (29801)	titration method, field, mg/L as CaCO <sub>3</sub> (39086)	titration method, field, mg/L (00453)
10-08-2009	< 15	93	11.3	3.63	2.19	7.17	43	37.2	45.4
10-28-2009	15	104	8.40	3.04	4.88	6.01	33	--	--
11-17-2009	< 15	72	6.27	2.49	2.73	4.88	22	18.4	22.4
12-02-2009	160	240	4.28	1.77	2.92	3.11	17	--	--
12-10-2009	< 15	74	4.45	1.79	2.05	3.13	16	11.6	14.2
01-05-2010	< 15	73	5.85	2.39	1.46	5.27	21	21.2	25.9
01-17-2010	149	223	4.46	1.95	2.29	3.85	15	--	--
02-05-2010	144	288	3.22	1.47	1.79	3.76	13	--	--
02-16-2010	< 15	74	5.32	2.21	1.35	6.42	20	14.9	18.1
03-23-2010	< 15	--	6.74	2.49	1.33	6.07	--	23.5	28.6
03-29-2010	272	286	4.47	1.75	1.79	3.82	16	--	--
04-21-2010	--	< 13	< .04	< .016	< .06	< .10	--	--	--

## 0208524088 MOUNTAIN CREEK AT SECONDARY ROAD 1616 NEAR BAHAMA, NC—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**

Part 4 of 13

[%, percent; CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; P, phosphorus; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; --, no data; <, less than; E, estimated; M, presence verified but not quantified]

Begin date	Bromide, water, filtered, mg/L (71870)	Chloride, water, filtered, mg/L (00940)	Sulfate, water, filtered, mg/L (00945)	Ammonia plus organic nitrogen, water, unfiltered, mg/L as N		Nitrate plus nitrite, water, filtered, mg/L as N (00631)	Orthophos phate, water, filtered, mg/L as P (00671)	Phosphorus, water, unfiltered, mg/L as P (00665)	Total nitrogen, water, unfiltered, mg/L (00600)
				Ammonia, water, filtered, mg/L as N (00608)	Ammonia, water, unfiltered, mg/L as N (00625)				
10-08-2009	.03	11.3	5.82	.32	< .020	.07	E .005	.028	.39
10-28-2009	.03	9.15	5.56	.53	< .020	.18	.012	.094	.71
11-17-2009	E .01	7.24	6.45	.42	.036	.48	.016	.054	.90
12-02-2009	E .01	4.66	4.60	1.1	< .020	.33	.012	.308	1.5
12-10-2009	E .01	4.71	5.53	.51	< .020	.40	.009	.073	.91
01-05-2010	.02	8.90	6.13	.20	.023	.69	.011	.027	.88
01-17-2010	E .01	7.06	5.56	.98	< .020	.48	.009	.215	1.5
02-05-2010	E .01	6.94	4.24	.83	.031	.32	.022	.222	1.1
02-16-2010	.02	11.9	6.11	.24	.024	.60	.011	.036	.84
03-23-2010	E .02	9.92	4.87	.31	< .020	.33	E .008	.027	.64
03-29-2010	E .01	6.22	4.78	1.3	< .020	.35	E .007	.299	1.7
04-21-2010	< .02	< .12	< .18	< .10	--	< .04	--	< .008	< .14

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**

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[%, percent; CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; P, phosphorus; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; --, no data; <, less than; E, estimated; M, presence verified but not quantified]

Begin date	Aluminum, water, unfiltered, mg/L		Cadmium, water, filtered, μg/L (01025)	Cadmium, water, unfiltered, μg/L (01027)	Chromium, water, filtered, μg/L (01030)	Chromium, water, unfiltered, μg/L		Copper, water, unfiltered, μg/L		Iron, water, unfiltered, μg/L (01046)
	Aluminum, water, filtered, μg/L (01106)	Aluminum, water, recover able, μg/L (01105)				Chromium, water, recover able, μg/L (01034)	Copper, water, recover able, μg/L (01040)	Copper, water, recover able, μg/L (01042)		
10-08-2009	19.1	107	< .02	< .04	E .07	< .42	< 1.0	< 1.4	205	569
10-28-2009	113	295	.02	E .03	.13	E .24	E .93	E 1.4	486	1,150
11-17-2009	120	216	< .02	< .04	E .12	< .42	E .88	E 1.2	490	888
12-02-2009	367	1,350	< .02	.06	.27	.98	1.5	3.3	620	2,930
12-10-2009	191	386	< .02	E .04	.16	E .31	1.1	1.6	497	808
01-05-2010	49.5	130	< .02	< .04	< .12	< .42	< 1.0	E .79	410	729
01-17-2010	469	1,240	E .01	E .03	.26	.87	1.5	2.8	783	2,320
02-05-2010	222	1,300	.02	.05	E .12	.92	1.0	3.6	294	2,560
02-16-2010	51.3	171	< .02	< .04	< .12	E .26	< 1.0	< 1.4	303	809
03-23-2010	28.5	119	< .02	< .04	E .06	< .42	E .55	< 1.4	404	1,050
03-29-2010	213	1,490	E .01	.07	.18	.98	2.5	3.8	515	3,850
04-21-2010	--	< 6	--	< .04	--	< .42	--	< 1.4	--	< 9

## 0208524088 MOUNTAIN CREEK AT SECONDARY ROAD 1616 NEAR BAHAMA, NC—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**

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[%, percent; CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; P, phosphorus; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated; M, presence verified but not quantified]

Begin date	Lead, water, filtered, µg/L (01049)	Lead, water, unfiltered, recover able, µg/L (01051)	Manga nese, water, filtered, µg/L (01056)	Mangan e, water, unfiltered, recover able, µg/L (01055)	Mercury, water, filtered, µg/L (71890)	Mercury, water, unfiltered, recover able, µg/L (71900)	Nickel, water, filtered, µg/L (01065)	Nickel, water, unfiltered, recover able, µg/L (01067)	Zinc, water, filtered, µg/L (01090)	Zinc, water, unfiltered, recover able, µg/L (01092)
10-08-2009	.05	.41	79.0	202	< .010	< .010	.23	E .20	< 2.8	E 1.0
10-28-2009	.18	.90	124	427	< .010	< .010	.44	.56	< 2.8	2.2
11-17-2009	.19	.55	150	169	< .010	< .010	.30	E .27	< 2.8	E 1.5
12-02-2009	.35	5.13	40.2	517	< .010	.010	.54	.79	E 2.2	9.6
12-10-2009	.25	.90	72.1	93.9	< .010	E .007	.39	E .33	E 2.0	2.5
01-05-2010	.12	.31	150	151	< .010	< .010	.28	E .21	< 2.8	E 1.4
01-17-2010	.35	3.73	64.3	346	< .010	.013	.55	.67	E 2.1	8.5
02-05-2010	.21	4.57	61.6	351	< .010	.014	.26	.67	E 1.7	8.4
02-16-2010	.11	.45	149	153	< .010	< .010	.28	E .26	< 2.8	E 1.4
03-23-2010	.12	.38	188	203	< .010	< .010	.19	E .20	< 2.8	< 2.0
03-29-2010	.27	5.75	63.0	733	< .010	E .009	.41	.89	E 1.8	9.9
04-21-2010	--	< .06	--	1.1	--	< .010	--	< .36	--	< 2.0

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**

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[%, percent; CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; P, phosphorus; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated; M, presence verified but not quantified]

Begin date	Arsenic, water, filtered, µg/L (01000)	Arsenic, water, unfiltered, µg/L (01002)	Selenium, water, filtered, µg/L (01145)	Selenium, water, unfiltered, µg/L (01147)	1,4- Dichloro benzene, water, unfiltered, recover able, µg/L (34571)	2,4,6- Trichlorop henol, water, unfiltered, recoverabl e, microgram s per liter (34621)	2,4- Dichloroph enol, water, unfiltered, recoverabl e, microgram s per liter (34601)	2,4- Dimethylp henol, water, unfiltered, recoverabl e, microgram s per liter (34606)	2-Methyl- 4,6- dinitrophe nol, water, unfiltered, recoverabl e, microgram s per liter (34657)	4-Chloro-3- methylphe nol, water, unfiltered, recoverabl e, microgram s per liter (34452)
10-08-2009	.30	.54	.10	.10	< 0.22	< 0.34	< 0.36	< .8	< 0.76	< 0.55
10-28-2009	.38	.57	.12	.11	< 0.22	< 0.34	< 0.36	< .8	< 0.76	< 0.55
11-17-2009	.35	.46	.12	.13	< 0.22	< 0.34	< 0.36	< .8	< 0.76	< 0.55
12-02-2009	.47	1.1	.16	.15	< 0.22	< 0.34	< 0.36	< .8	< 0.76	< 0.55
12-10-2009	.33	.56	.14	.13	< 0.22	< 0.34	< 0.36	< .8	< 0.76	< 0.55
01-05-2010	.21	.28	.12	E .10	< 0.22	< 0.34	< 0.36	< .8	< 0.76	< 0.55
01-17-2010	.39	.87	.13	.14	< 0.22	< 0.34	< 0.36	< .8	< 0.76	< 0.55
02-05-2010	.17	.87	.11	.12	< 0.22	< 0.34	< 0.36	< .8	< 0.76	< 0.55
02-16-2010	.19	.41	.11	E .09	< 0.22	< 0.34	< 0.36	< .8	< 0.76	< 0.55
03-23-2010	.35	.41	.10	.10	< 0.22	< 0.34	< 0.36	< .8	< 0.76	< 0.55
03-29-2010	.38	1.1	.14	.21	< 0.22	< 0.34	M	< .8	< 0.76	< 0.55
04-21-2010	--	< .18	--	< .10	< 0.22	< 0.34	< 0.36	< .8	< 0.76	< 0.55

## 0208524088 MOUNTAIN CREEK AT SECONDARY ROAD 1616 NEAR BAHAMA, NC—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**

Part 8 of 13

[%, percent; CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; P, phosphorus; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; --, no data; <, less than; E, estimated; M, presence verified but not quantified]

Begin date	4-Nitrophenol, water, unfiltered, recoverable, micrograms per liter (34646)	Hexachlorobenzene, water, unfiltered, recoverable, micrograms per liter (39700)	Pentachlorophenol, water, unfiltered, recoverable, micrograms per liter (39032)	1,2,4-Trichlorobenzene, water, unfiltered, recoverable, μg/L (34551)	1,2-Dichlorobenzene, water, unfiltered, recoverable, μg/L (34536)	1,2-Diphenylhydrazine, water, unfiltered, recoverable, micrograms per liter (82626)	1,3-Dichlorobenzene, water, unfiltered, recoverable, μg/L (34566)	2,4-Dinitrophenol, water, unfiltered, recoverable, micrograms per liter (34616)	2,4-Dinitrotoluene, water, unfiltered, recoverable, micrograms per liter (34611)	2,6-Dinitrotoluene, water, unfiltered, recoverable, micrograms per liter (34626)
10-08-2009	M	< 0.30	< 0.6	< 0.26	< 0.20	< 0.30	< 0.22	< 1	< 0.56	< 0.4
10-28-2009	< 0.51	< 0.30	< 0.6	< 0.26	< 0.20	< 0.30	< 0.22	< 1	< 0.56	< 0.4
11-17-2009	< 0.51	< 0.30	< 0.6	< 0.26	< 0.20	< 0.30	< 0.22	--	< 0.56	< 0.4
12-02-2009	< 0.51	< 0.30	< 0.6	< 0.26	< 0.20	< 0.30	< 0.22	M	< 0.56	< 0.4
12-10-2009	< 0.51	< 0.30	< 0.6	< 0.26	< 0.20	< 0.30	< 0.22	--	< 0.56	< 0.4
01-05-2010	< 0.51	< 0.30	< 0.6	< 0.26	< 0.20	< 0.30	< 0.22	--	< 0.56	< 0.4
01-17-2010	< 0.51	< 0.30	< 0.6	< 0.26	< 0.20	< 0.30	< 0.22	--	< 0.56	< 0.4
02-05-2010	< 0.51	< 0.30	< 0.6	< 0.26	< 0.20	< 0.30	< 0.22	< 1	< 0.56	< 0.4
02-16-2010	< 0.51	< 0.30	< 0.6	< 0.26	< 0.20	< 0.30	< 0.22	--	< 0.56	< 0.4
03-23-2010	< 0.51	< 0.30	< 0.6	< 0.26	< 0.20	< 0.30	< 0.22	< 1	< 0.56	< 0.4
03-29-2010	M	< 0.30	< 0.6	M	< 0.20	< 0.30	< 0.22	< 1	< 0.56	< 0.4
04-21-2010	< 0.51	< 0.30	< 0.6	< 0.26	< 0.20	< 0.30	< 0.22	< 1	< 0.56	< 0.4

## 0208524088 MOUNTAIN CREEK AT SECONDARY ROAD 1616 NEAR BAHAMA, NC—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**

Part 9 of 13

[%, percent; CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; P, phosphorus; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; --, no data; <, less than; E, estimated; M, presence verified but not quantified]

Begin date	2- Chloronap hthalene, water, unfiltered, recoverabl e, microgram s per liter (34581)	2- Chlorophe nol, water, unfiltered, recoverabl e, microgram s per liter (34586)	2- Nitrophen ol, water, unfiltered, recoverabl e, microgram s per liter (34591)	3,3'- Dichlorobe nzidine, water, unfiltered, recoverabl e, microgram s per liter (34631)	4- Bromophe nyl phenyl ether, water, unfiltered, recoverabl e, microgram s per liter (34636)	4- Chlorophe nyl phenyl ether, water, unfiltered, recoverabl e, microgram s per liter (34641)	9H- Fluorene, water, unfiltered, recoverabl e, microgram s per liter (34381)	Acenaphth ene, water, unfiltered, recoverabl e, microgram s per liter (34205)	Acenaphth ylene, water, unfiltered, recoverabl e, microgram s per liter (34200)	Anthracen e, water, unfiltered, recoverabl e, microgram s per liter (34220)
	10-08-2009	< 0.16	< 0.26	< 0.40	< 0.42	< 0.24	< 0.34	< 0.33	< 0.28	< 0.30
10-28-2009	< 0.16	< 0.26	< 0.40	--	< 0.24	< 0.34	< 0.33	< 0.28	< 0.30	< 0.39
11-17-2009	< 0.16	< 0.26	< 0.40	< 0.42	< 0.24	< 0.34	< 0.33	< 0.28	< 0.30	< 0.39
12-02-2009	< 0.16	< 0.26	< 0.40	--	< 0.24	< 0.34	< 0.33	< 0.28	< 0.30	< 0.39
12-10-2009	< 0.16	< 0.26	< 0.40	< 0.42	< 0.24	< 0.34	< 0.33	< 0.28	< 0.30	< 0.39
01-05-2010	< 0.16	< 0.26	< 0.40	< 0.42	< 0.24	< 0.34	< 0.33	< 0.28	< 0.30	< 0.39
01-17-2010	< 0.16	< 0.26	< 0.40	< 0.42	< 0.24	< 0.34	< 0.33	< 0.28	< 0.30	< 0.39
02-05-2010	< 0.16	< 0.26	< 0.40	< 0.42	< 0.24	< 0.34	< 0.33	< 0.28	< 0.30	< 0.39
02-16-2010	< 0.16	< 0.26	M	< 0.42	< 0.24	< 0.34	< 0.33	< 0.28	< 0.30	< 0.39
03-23-2010	< 0.16	< 0.26	< 0.40	< 0.42	< 0.24	< 0.34	< 0.33	< 0.28	< 0.30	< 0.39
03-29-2010	< 0.16	< 0.26	< 0.40	< 0.42	< 0.24	< 0.34	< 0.33	< 0.28	< 0.30	< 0.39
04-21-2010	< 0.16	< 0.26	< 0.40	< 0.42	< 0.24	< 0.34	< 0.33	< 0.28	< 0.30	< 0.39

## 0208524088 MOUNTAIN CREEK AT SECONDARY ROAD 1616 NEAR BAHAMA, NC—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**

Part 10 of 13

[%, percent; CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; P, phosphorus; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; --, no data; <, less than; E, estimated; M, presence verified but not quantified]

Begin date	Benzo[a]a	Benzo[a]py	Benzo[b]fl	Benzo[ghi]	Benzo[k]fl	Benzyl n-	Bis(2-	Bis(2-	Bis(2-	Bis(2-
	anthracene, water, unfiltered, recoverabl e, microgram s per liter (34526)	rene, water, unfiltered, recoverabl e, microgram s per liter (34247)	uoranthen e, water, unfiltered, recoverabl e, microgram s per liter (34230)	perylene, water, unfiltered, recoverabl e, microgram s per liter (34521)	uoranthen e, water, unfiltered, recoverabl e, microgram s per liter (34242)	butyl phthalate, water, unfiltered, recoverabl e, microgram s per liter (34292)	chloroetho xy)methan e, water, unfiltered, recoverabl e, microgram s per liter (34278)	chloroethy l) ether, water, unfiltered, recoverabl e, microgram s per liter (34273)	chloroisop ropyl) ether, water, unfiltered, recoverabl e, microgram s per liter (34283)	ethylhexyl) phthalate, water, unfiltered, recoverabl e, microgram s per liter (39100)
10-08-2009	< 0.26	< 0.33	< 0.30	< 0.38	< 0.30	< 2	< 0.24	< 0.30	< 0.14	< 2
10-28-2009	< 0.26	< 0.33	< 0.30	< 0.38	< 0.30	< 2	< 0.24	< 0.30	< 0.14	< 2
11-17-2009	< 0.26	< 0.33	< 0.30	< 0.38	< 0.30	< 2	< 0.24	< 0.30	< 0.14	< 2
12-02-2009	< 0.26	< 0.33	< 0.30	< 0.38	< 0.30	< 2	< 0.24	< 0.30	< 0.14	< 2
12-10-2009	< 0.26	< 0.33	< 0.30	< 0.38	< 0.30	< 2	< 0.24	< 0.30	< 0.14	< 2
01-05-2010	< 0.26	< 0.33	< 0.30	< 0.38	< 0.30	< 2	< 0.24	< 0.30	< 0.14	< 2
01-17-2010	< 0.26	< 0.33	< 0.30	< 0.38	< 0.30	< 2	< 0.24	< 0.30	< 0.14	< 2
02-05-2010	< 0.26	< 0.33	< 0.30	< 0.38	< 0.30	< 2	< 0.24	< 0.30	< 0.14	< 2
02-16-2010	< 0.26	< 0.33	< 0.30	< 0.38	< 0.30	< 2	< 0.24	< 0.30	< 0.14	< 2
03-23-2010	< 0.26	< 0.33	< 0.30	< 0.38	< 0.30	< 2	< 0.24	< 0.30	< 0.14	< 2
03-29-2010	< 0.26	< 0.33	< 0.30	< 0.38	< 0.30	< 2	< 0.24	< 0.30	< 0.14	< 2
04-21-2010	< 0.26	< 0.33	< 0.30	< 0.38	< 0.30	< 2	< 0.24	< 0.30	< 0.14	< 2



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[%, percent; CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; P, phosphorus; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; --, no data; <, less than; E, estimated; M, presence verified but not quantified]

Begin date	Chrysene, water, unfiltered, recoverable, microgram s per liter (34320)	Dibenzo[a, h]anthracene, water, unfiltered, recoverable, microgram s per liter (34556)	Diethyl phthalate, water, unfiltered, recoverable, microgram s per liter (34336)	Dimethyl phthalate, water, unfiltered, recoverable, microgram s per liter (34341)	Di-n-butyl phthalate, water, unfiltered, recoverable, microgram s per liter (39110)	Di-n-octyl phthalate, water, unfiltered, recoverable, microgram s per liter (34596)	Fluoranthene, water, unfiltered, recoverable, microgram s per liter (34376)	Hexachloro butadiene, water, unfiltered, recoverable, μg/L (39702)	Hexachloro cyclopentadiene, water, unfiltered, recoverable, microgram s per liter (34386)	Hexachloro ethane, water, unfiltered, recoverable, μg/L (34396)
10-08-2009	< 0.33	< 0.42	< 0.61	M	< 2	< 0.6	< 0.30	< 0.24	< 0.50	< 0.24
10-28-2009	< 0.33	< 0.42	< 0.61	M	< 2	< 0.6	< 0.30	< 0.24	< 0.50	< 0.24
11-17-2009	< 0.33	< 0.42	< 0.61	< 0.36	< 2	< 0.6	< 0.30	< 0.24	< 0.50	< 0.24
12-02-2009	< 0.33	< 0.42	< 0.61	M	< 2	< 0.6	M	< 0.24	< 0.50	< 0.24
12-10-2009	< 0.33	< 0.42	< 0.61	< 0.36	< 2	< 0.6	< 0.30	< 0.24	< 0.50	< 0.24
01-05-2010	< 0.33	< 0.42	< 0.61	< 0.36	< 2	< 0.6	< 0.30	< 0.24	< 0.50	< 0.24
01-17-2010	< 0.33	< 0.42	< 0.61	M	< 2	< 0.6	< 0.30	< 0.24	< 0.50	< 0.24
02-05-2010	< 0.33	< 0.42	< 0.61	M	M	< 0.6	< 0.30	< 0.24	< 0.50	< 0.24
02-16-2010	< 0.33	< 0.42	< 0.61	< 0.36	< 2	< 0.6	< 0.30	< 0.24	< 0.50	< 0.24
03-23-2010	< 0.33	< 0.42	< 0.61	< 0.36	< 2	< 0.6	M	< 0.24	< 0.50	< 0.24
03-29-2010	< 0.33	< 0.42	M	M	< 2	< 0.6	M	< 0.24	< 0.50	< 0.24
04-21-2010	< 0.33	< 0.42	< 0.61	M	< 2	< 0.6	< 0.30	< 0.24	< 0.50	< 0.24

## 0208524088 MOUNTAIN CREEK AT SECONDARY ROAD 1616 NEAR BAHAMA, NC—Continued

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[%, percent; CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; P, phosphorus; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; --, no data; <, less than; E, estimated; M, presence verified but not quantified]

Begin date	Indeno[1,2,3-cd]pyrene, water, unfiltered, recoverable, micrograms per liter (34403)	Isophorone, water, unfiltered, recoverable, micrograms per liter (34408)	Naphthalene, water, unfiltered, recoverable, μg/L (34696)	Nitrobenzene, water, unfiltered, recoverable, micrograms per liter (34447)	N-Nitrosodimethylamine, water, unfiltered, recoverable, micrograms per liter (34438)	N-Nitrosodipropylamine, water, unfiltered, recoverable, micrograms per liter (34428)	N-Nitrosodiphenylamine, water, unfiltered, recoverable, micrograms per liter (34433)	Oil and grease, water, unfiltered, hexane extraction, recoverable, milligrams per liter (00552)	Organic carbon, water, filtered, mg/L (00681)	Organic carbon, water, unfiltered, mg/L (00680)
10-08-2009	< 0.38	M	< 0.22	< 0.26	< 0.24	< 0.4	< 0.28	E 2.1	3.6	4.5
10-28-2009	< 0.38	M	< 0.22	< 0.26	< 0.24	< 0.4	< 0.28	E 2.2	6.8	7.5
11-17-2009	< 0.38	M	< 0.22	< 0.26	< 0.24	< 0.4	< 0.28	E 2.4	5.3	5.7
12-02-2009	< 0.38	M	< 0.22	< 0.26	< 0.24	< 0.4	< 0.28	E 2.0	8.7	16.0
12-10-2009	< 0.38	< 0.26	< 0.22	< 0.26	< 0.24	< 0.4	< 0.28	< 5.0	6.2	8.1
01-05-2010	< 0.38	< 0.26	< 0.22	< 0.26	< 0.24	< 0.4	< 0.28	< 5.0	3.3	2.9
01-17-2010	< 0.38	M	< 0.22	< 0.26	< 0.24	< 0.4	< 0.28	E 3.50	6.9	9.5
02-05-2010	< 0.38	< 0.26	< 0.22	< 0.26	< 0.24	< 0.4	< 0.28	E 2.10	6.0	8.3
02-16-2010	< 0.38	< 0.26	< 0.22	< 0.26	< 0.24	< 0.4	< 0.28	E 3.00	2.7	2.7
03-23-2010	< 0.38	M	< 0.22	< 0.26	< 0.24	< 0.4	< 0.28	E 2.10	3.0	3.4
03-29-2010	< 0.38	M	< 0.22	< 0.26	< 0.24	< 0.4	< 0.28	E 2.50	8.8	11.2
04-21-2010	< 0.38	< 0.26	< 0.22	< 0.26	< 0.24	< 0.4	< 0.28	E 2.40	--	< .6

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**WATER-QUALITY DATA**  
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[%, percent; CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; P, phosphorus; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; --, no data; <, less than; E, estimated; M, presence verified but not quantified]

Begin date	Phenanthrene, water, unfiltered, recoverable,	Phenol, water, unfiltered, recoverable,	Pyrene, water, unfiltered, recoverable,	Suspended sediment, sieve diameter, percent smaller than 0.0625 mm	Suspended sediment concentration, mg/L
	micrograms per liter (34461)	micrograms per liter (34694)	micrograms per liter (34469)	(70331)	(80154)
10-08-2009	< 0.32	< .3	< 0.35	87	30
10-28-2009	< 0.32	< .3	< 0.35	94	23
11-17-2009	< 0.32	< .3	< 0.35	99	46
12-02-2009	< 0.32	< .3	M	91	223
12-10-2009	< 0.32	< .3	< 0.35	82	31
01-05-2010	< 0.32	< .3	< 0.35	97	6
01-17-2010	< 0.32	< .3	< 0.35	94	160
02-05-2010	< 0.32	< .3	< 0.35	85	238
02-16-2010	< 0.32	< .3	< 0.35	70	21
03-23-2010	< 0.32	< .3	< 0.35	91	11
03-29-2010	< 0.32	< .3	< 0.35	92	273
04-21-2010	< 0.32	< .3	< 0.35	--	--