



Water-Data Report 2012

02096846 CANE CREEK NEAR ORANGE GROVE, NC

Cape Fear Basin
Haw Subbasin

LOCATION.--Lat 35°59'14", long 79°12'22" referenced to North American Datum of 1983, Orange County, NC, Hydrologic Unit 03030002, on right bank, downstream of bridge on Secondary Road 1114, and 1.0 mi northwest of Orange Grove.

DRAINAGE AREA.--7.54 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--November 1988 to current year.

GAGE.--Water-stage recorder. Datum of gage is 507.6 ft above North American Vertical Datum of 1988. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records poor. Maximum discharge for period of record from rating curve extended above 500 ft³/s, based on contracted-opening measurement of peak flow; maximum gage-height, 7.90 ft, from flood mark. No flow occurs at times most years.

02096846 CANE CREEK NEAR ORANGE GROVE, NC—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	0.00	1.9	1.1	1.4	3.1	5.2	0.76	0.23	0.00	0.06	0.00
2	0.00	0.00	0.82	1.0	1.3	2.7	2.9	0.60	0.24	0.00	0.05	0.00
3	0.00	0.00	0.60	0.87	1.1	34	2.1	0.53	0.22	0.00	0.04	20
4	0.00	5.1	0.52	0.76	1.00	11	2.2	0.48	0.20	0.00	0.01	7.7
5	0.00	1.5	0.48	0.75	1.1	6.3	3.1	65	0.20	0.00	0.00	0.50
6	0.00	0.19	0.43	0.67	1.2	4.1	2.2	30	0.22	0.00	0.00	3.6
7	0.00	0.13	1.4	0.65	1.1	3.1	1.9	5.6	0.24	0.00	0.00	6.1
8	0.00	0.11	9.5	0.65	1.0	2.7	1.7	2.7	0.28	0.00	0.00	0.70
9	0.00	0.10	2.9	0.66	0.81	2.9	1.4	7.6	0.21	0.03	0.00	5.3
10	0.00	0.08	1.4	0.73	0.78	2.8	1.2	8.0	0.18	0.19	0.04	0.71
11	0.00	0.09	0.77	0.87	0.81	2.2	1.1	2.7	0.17	1.1	0.32	0.31
12	0.00	0.08	0.64	2.2	0.78	1.9	1.00	1.4	0.19	0.31	1.4	0.21
13	0.00	0.07	0.56	2.2	0.75	1.8	0.98	0.87	0.22	0.14	0.13	0.19
14	0.00	0.07	0.51	1.3	0.75	1.5	0.89	3.0	0.21	0.13	0.08	0.18
15	0.00	0.07	0.48	0.92	0.69	1.2	0.86	26	0.18	0.12	0.06	0.16
16	0.00	0.08	0.53	0.77	0.57	1.2	0.78	9.4	0.16	0.10	0.04	0.20
17	0.00	0.21	5.9	0.75	0.79	1.3	0.74	4.3	0.15	0.06	0.00	0.28
18	0.00	0.97	3.8	0.85	0.81	3.8	0.71	2.3	0.16	0.05	0.00	31
19	0.01	0.22	2.0	0.78	1.1	3.2	0.86	1.2	0.15	0.01	0.04	19
20	0.00	0.15	1.1	0.75	9.5	2.4	0.84	0.76	0.15	0.00	0.04	2.8
21	0.00	0.14	7.4	1.3	7.2	25	0.76	0.64	0.14	0.05	0.05	0.73
22	0.00	0.12	14	2.7	3.8	7.0	2.8	0.56	0.14	0.06	0.07	0.44
23	0.00	0.12	11	2.3	4.2	4.0	6.1	2.0	0.15	0.04	0.06	0.34
24	0.00	0.12	4.2	2.1	4.8	40	2.3	1.0	0.13	0.03	0.04	0.29
25	0.00	0.11	2.7	1.6	11	95	1.4	0.62	0.12	0.02	0.00	0.24
26	0.00	0.11	2.0	1.2	4.3	15	1.5	0.49	0.10	0.00	0.00	0.24
27	0.00	0.10	2.1	5.2	3.1	6.4	1.7	0.36	0.09	0.00	0.00	0.25
28	0.00	0.10	4.0	5.1	3.5	3.9	1.1	0.34	0.08	0.01	0.00	0.24
29	0.00	27	2.7	2.9	2.9	2.8	0.89	0.29	0.00	1.7	0.00	0.64
30	0.00	6.0	2.0	2.2	---	2.3	0.87	0.27	0.00	0.17	0.00	2.3
31	0.00	---	1.5	1.6	---	2.2	---	0.26	---	0.09	0.00	---
Total	0.01	43.14	89.84	47.43	72.14	296.8	52.08	180.03	4.91	4.41	2.53	104.65
Mean	0.00	1.44	2.90	1.53	2.49	9.57	1.74	5.81	0.16	0.14	0.08	3.49
Max	0.01	27	14	5.2	11	95	6.1	65	0.28	1.7	1.4	31
Min	0.00	0.00	0.43	0.65	0.57	1.2	0.71	0.26	0.00	0.00	0.00	0.00
Cfsm	0.00	0.19	0.38	0.20	0.33	1.27	0.23	0.77	0.02	0.02	0.01	0.46
In.	0.00	0.21	0.44	0.23	0.36	1.46	0.26	0.89	0.02	0.02	0.01	0.52

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2012, BY WATER YEAR (WY)

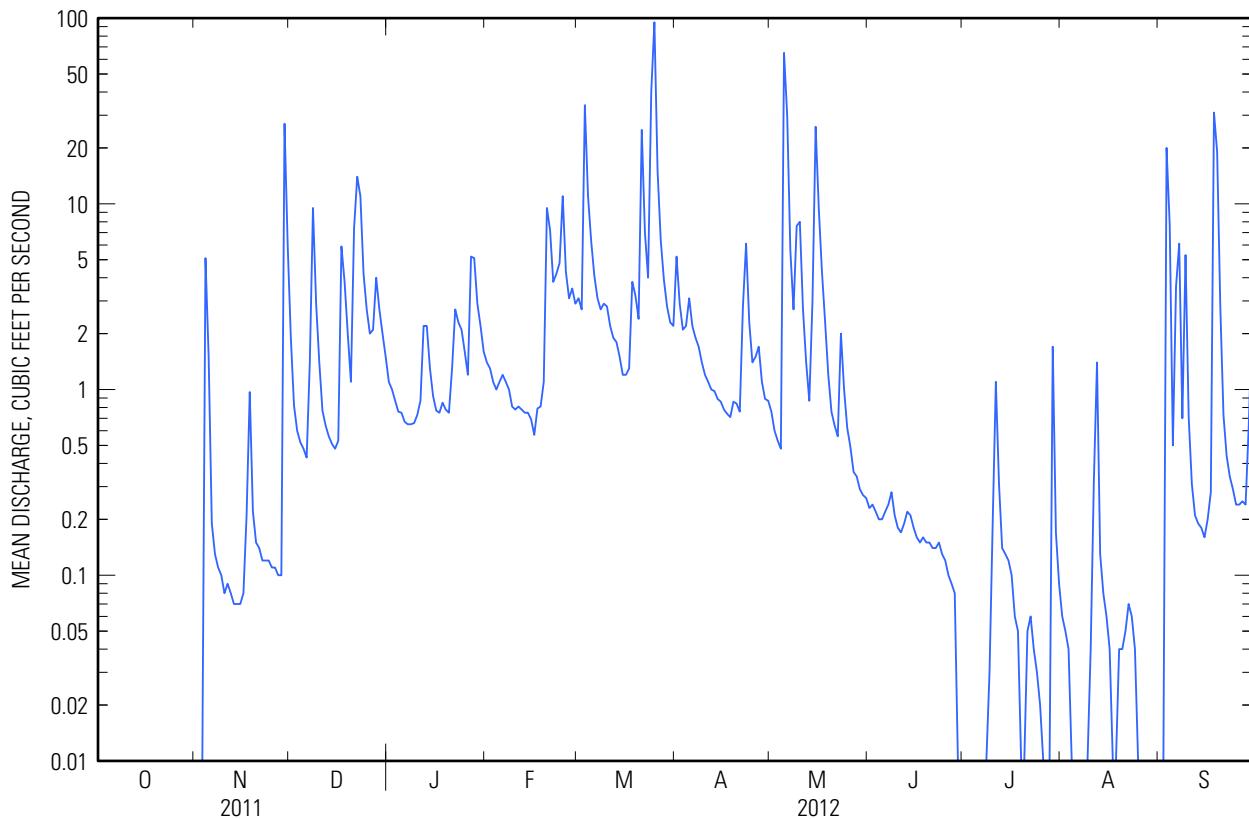
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	2.06	3.77	5.89	9.47	10.5	15.4	8.83	4.42	3.35	1.98	1.13	3.33
Max	13.0	18.6	21.0	28.3	34.3	46.3	37.2	18.7	16.4	13.5	9.50	25.9
(WY)	(2003)	(2007)	(2010)	(1998)	(1998)	(1998)	(2003)	(1989)	(1995)	(2000)	(2004)	(1996)
Min	0.00	0.00	0.08	0.32	1.25	1.19	1.06	0.13	0.02	0.03	0.00	0.00
(WY)	(2012)	(2008)	(2008)	(2008)	(2008)	(2006)	(2002)	(2002)	(2002)	(2007)	(2007)	(2005)

02096846 CANE CREEK NEAR ORANGE GROVE, NC—Continued

SUMMARY STATISTICS

	Calendar Year 2011	Water Year 2012	Water Years 1989 - 2012
Annual total	612.50	897.97	
Annual mean	1.68	2.45	5.68
Highest annual mean			14.3
Lowest annual mean			0.99
Highest daily mean	42	Apr 10	Mar 4, 1993
Lowest daily mean	0.00	Jun 17	0.00 Sep 17, 1990
Annual seven-day minimum	0.00	Jun 17	0.00 Sep 17, 1990
Maximum peak flow			^a 2,060 Sep 6, 1996
Maximum peak stage			^a 7.90 Sep 6, 1996
Instantaneous low flow			^a 0.00 Sep 17, 1990
Annual runoff (cfsm)	0.223	0.325	0.753
Annual runoff (inches)	3.02	4.43	10.23
10 percent exceeds	3.8	5.1	10
50 percent exceeds	0.44	0.64	1.3
90 percent exceeds	0.00	0.00	0.02

^a See Remarks.



02096846 CANE CREEK NEAR ORANGE GROVE, NC—Continued**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--Water years 1989 to current year.

REMARKS.--Station operated to define water quality as part of a regional surface-water quality assessment.

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

Part 1 of 19

[ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; MF, membrane filter; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO₂, silicon dioxide; col/100 mL, colonies per 100 milliliters; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °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)	Temperature, air, °C (00020)	Discharge, instantane-ous, ft ³ /s (00061)	Dissolved oxygen, water, unfiltered, mg/L (00300)	pH, water, unfiltered, field, standard units (00400)
11-04-2011	0715	Surface water	Regular	743	--	20	9.8	6.7
11-29-2011	0835	Surface water	Regular	--	--	42	--	6.9
11-29-2011	0836	QC sample - Surface water	Duplicate	--	--	--	--	--
12-09-2011	1230	Surface water	Regular	762	--	2.8	11.7	7.0
12-13-2011	1200	QC sample - Artificial	Blank	--	--	--	--	--
02-02-2012	1145	Surface water	Regular	750	17.6	1.3	13.3	8.6
02-02-2012	1146	QC sample - Surface water	Duplicate	--	--	--	--	--
03-03-2012	1100	Surface water	Regular	--	--	90	--	6.5
03-03-2012	1101	QC sample - Surface water	Duplicate	--	--	--	--	--
03-14-2012	1015	Surface water	Regular	758	--	1.5	10.8	6.7
03-14-2012	1016	QC sample - Surface water	Duplicate	--	--	--	--	--
03-24-2012	2305	Surface water	Regular	--	--	244	--	8.6
03-24-2012	2306	QC sample - Surface water	Duplicate	--	--	--	--	--
03-25-2012	0215	Surface water	Regular	--	--	181	--	8.2
03-25-2012	0216	QC sample - Surface water	Duplicate	--	--	--	--	--
04-25-2012	0846	QC sample - Artificial	Blank	--	--	--	--	--
04-25-2012	0852	QC sample - Artificial	Blank	--	--	--	--	--
04-25-2012	0915	Surface water	Regular	746	--	1.5	10.2	6.8
08-21-2012	1245	Surface water	Regular	751	--	.06	7.5	7.1
09-03-2012	1825	Surface water	Regular	--	--	155	--	6.3
09-18-2012	1635	Surface water	Regular	--	--	--	--	--
09-18-2012	1705	Surface water	Regular	--	--	110	--	6.8
09-18-2012	1805	Surface water	Regular	--	--	133	--	6.8

02096846 CANE CREEK NEAR ORANGE GROVE, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Part 2 of 19

[ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; MF, membrane filter; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO₂, silicon dioxide; col/100 mL, colonies per 100 milliliters; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Specific conductance, water, unfiltered, µS/cm at 25°C (00095)		Temperature, water, °C (00010)	Turbidity, water, unfiltered, broad band light source (400-680 nm), detectors at multiple angles including 90 +/- 30 degrees, ratiometric correction, NTRU (63676)	Dissolved solids dried at 180°C, water, filtered, mg/L (70300)	Calcium, water, filtered, mg/L (00915)	Magnesium, water, filtered, mg/L (00925)	Potassium, water, filtered, mg/L (00935)	Sodium, water, filtered, mg/L (00930)
		unfiltered, broad band light source (400-680 nm), detectors at multiple angles including 90 +/- 30 degrees, ratiometric correction, NTRU (63676)								
11-04-2011	0715	89	10.6	--	61	6.72	3.15	3.69	2.89	
11-29-2011	0835	111	9.8	--	--	7.79	3.40	8.08	5.46	
11-29-2011	0836	--	--	--	--	--	--	--	--	
12-09-2011	1230	65	8.0	--	58	4.66	1.97	1.71	4.34	
12-13-2011	1200	--	--	--	--	4.79	1.98	1.70	4.27	
02-02-2012	1145	81	10.7	--	54	6.25	2.43	1.19	5.63	
02-02-2012	1146	--	--	--	--	--	--	--	--	
03-03-2012	1100	59	--	--	72	4.38	1.84	1.54	3.97	
03-03-2012	1101	--	--	--	--	--	--	--	--	
03-14-2012	1015	87	12.7	--	--	6.65	2.59	1.08	5.70	
03-14-2012	1016	--	--	--	--	--	--	--	--	
03-24-2012	2305	134	--	--	--	4.33	1.84	2.78	2.96	
03-24-2012	2306	--	--	--	--	--	--	--	--	
03-25-2012	0215	55	--	--	--	--	--	--	--	
03-25-2012	0216	--	--	--	--	--	--	--	--	
04-25-2012	0846	--	--	--	--	< .022	< .011	< .03	< .06	
04-25-2012	0852	--	--	--	--	< .022	< .011	< .03	< .06	
04-25-2012	0915	84	10.5	--	96	7.20	2.85	1.13	5.39	
08-21-2012	1245	76	21.6	7.3	71	7.42	2.60	1.96	3.75	
09-03-2012	1825	82	--	--	--	5.20	2.13	6.96	2.88	
09-18-2012	1635	--	--	--	--	--	--	--	--	
09-18-2012	1705	76	--	--	77	6.03	2.46	5.28	3.02	
09-18-2012	1805	76	--	--	--	4.86	1.97	3.92	2.76	

02096846 CANE CREEK NEAR ORANGE GROVE, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Part 3 of 19

[ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; MF, membrane filter; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO₂, silicon dioxide; col/100 mL, colonies per 100 milliliters; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Bi-				Chloride, water, filtered, mg/L (00940)	Fluoride, water, filtered, mg/L (00950)	Silica, water, filtered, mg/L as SiO ₂ (00955)	Ammonia plus organic nitrogen, water, filtered, mg/L (00945)	Sulfate, water, filtered, mg/L (00945)	Ammonia plus organic nitrogen, water, unfiltered, mg/L as N (00625)
		ANC, water, unfiltered, inflection-point, incremental titration method, field,	Alkalinity, water, filtered, fixed endpoint	carbonate, water, unfiltered, inflection-point, incremental titration laboratory, mg/L as CaCO ₃ (29801)	Chloride, water, filtered, mg/L (00940)						
11-04-2011	0715	--	31.4	--	4.07	0.04	10.3	1.44	0.81		
11-29-2011	0835	23.3	27.7	28.3	10.9	.05	--	6.60	2.0		
11-29-2011	0836	--	--	--	--	--	--	--	--	--	--
12-09-2011	1230	12	--	14	6.21	<.04	12.1	5.53	.53		
12-13-2011	1200	--	15.8	--	6.15	.04	--	5.23	.55		
02-02-2012	1145	--	--	--	8.08	<.04	6.45	5.22	.31		
02-02-2012	1146	--	--	--	--	--	--	--	--	--	--
03-03-2012	1100	--	--	--	4.51	<.04	8.42	4.40	1.4		
03-03-2012	1101	--	--	--	--	--	--	--	--	--	--
03-14-2012	1015	--	25.6	--	7.49	<.04	--	5.03	.33		
03-14-2012	1016	--	--	--	--	--	--	--	--	--	--
03-24-2012	2305	--	14.6	--	4.68	.06	--	3.90	3.2		
03-24-2012	2306	--	--	--	--	--	--	--	--	--	--
03-25-2012	0215	--	--	--	--	--	--	--	--	1.2	
03-25-2012	0216	--	--	--	--	--	--	--	--	--	--
04-25-2012	0846	--	--	--	<.06	<.04	<.018	<.09	<.07		
04-25-2012	0852	--	--	--	<.06	<.04	<.018	<.09	<.07		
04-25-2012	0915	--	27.1	--	<.06	--	13.1	<.09	.39		
08-21-2012	1245	--	--	--	2.88	.07	10.1	1.67	.45		
09-03-2012	1825	--	18.9	--	5.45	.05	--	3.87	3.3		
09-18-2012	1635	--	--	--	--	--	--	--	--		
09-18-2012	1705	--	22.7	--	4.57	.06	8.26	3.01	2.1		
09-18-2012	1805	--	17.3	--	4.05	.05	--	2.59	1.8		

02096846 CANE CREEK NEAR ORANGE GROVE, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Part 4 of 19

[ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; MF, membrane filter; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO₂, silicon dioxide; col/100 mL, colonies per 100 milliliters; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Ammonia, water, filtered, mg/L as N (00608)	Nitrate plus nitrite, water, filtered, mg/L as N (00631)	Nitrite, water, filtered, mg/L as N (00613)	Orthophosphate, water, filtered, mg/L as P (00671)	Phosphorus, water, unfiltered, mg/L as P (00665)	Escherichia coli, Defined Substrate Tech-nology, MPN/100 mL (50468)	Fecal coliform, M-FC MF method, col/100 mL (31616)	Aluminum, water, unfiltered, recover-able, µg/L (01105)
11-04-2011	0715	0.012	0.15	--	0.054	0.235	5,200	7,000	815
11-29-2011	0835	.023	.905	--	.205	.591	55,000	49,000	1,960
11-29-2011	0836	--	--	--	--	--	--	56,000	--
12-09-2011	1230	< .010	.24	--	.016	.057	1,400	640	--
12-13-2011	1200	< .010	.247	--	.016	.055	--	--	--
02-02-2012	1145	< .010	.56	--	.005	.026	51	23	--
02-02-2012	1146	--	--	--	--	--	--	46	--
03-03-2012	1100	.039	.19	--	.017	.398	4,800	3,100	--
03-03-2012	1101	--	--	--	--	--	4,000	2,800	--
03-14-2012	1015	.016	.526	--	< .004	.026	32	27	--
03-14-2012	1016	--	--	--	--	--	39	27	--
03-24-2012	2305	.052	.222	--	.020	.997	9,700	11,000	--
03-24-2012	2306	--	--	--	--	--	15,000	3,000	--
03-25-2012	0215	< .010	.180	--	.011	.179	83,000	34,000	--
03-25-2012	0216	--	--	--	--	--	98,000	29,000	--
04-25-2012	0846	.022	< .01	< .001	< .004	< .004	--	--	< 3.8
04-25-2012	0852	.013	< .01	< .001	< .004	< .004	--	--	< 3.8
04-25-2012	0915	.025	.69	--	.014	.046	86	48	52.9
08-21-2012	1245	.013	.20	--	.034	.074	--	--	--
09-03-2012	1825	.187	1.17	--	.168	.93	3,200	2,800	--
09-18-2012	1635	--	--	--	--	--	19,000	19,000	--
09-18-2012	1705	.028	.62	--	.258	.867	--	--	2,790
09-18-2012	1805	.013	.358	--	.215	.721	16,000	23,000	--

02096846 CANE CREEK NEAR ORANGE GROVE, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Part 5 of 19

[ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; MF, membrane filter; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO₂, silicon dioxide; col/100 mL, colonies per 100 milliliters; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Cadmium, water, unfiltered, µg/L (01027)	Chromium, water, unfiltered, recoverable, µg/L (01034)	Cobalt, water, unfiltered, recoverable, µg/L (01037)	Copper, water, unfiltered, recoverable, µg/L (01042)	Iron, water, filtered, µg/L (01046)	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)
11-04-2011	0715	<.016	0.58	1.8	1.7	540	2,380	1.36	937	0.007
11-29-2011	0835	.037	1.3	2.8	5.4	665	3,310	2.83	1,020	.013
11-29-2011	0836	--	--	--	--	--	--	--	--	--
12-09-2011	1230	--	--	--	--	738	--	--	--	--
12-13-2011	1200	--	--	--	--	628	--	--	--	--
02-02-2012	1145	--	--	--	--	358	--	--	--	--
02-02-2012	1146	--	--	--	--	--	--	--	--	--
03-03-2012	1100	--	--	--	--	552	--	--	--	--
03-03-2012	1101	--	--	--	--	--	--	--	--	--
03-14-2012	1015	--	--	--	--	500	--	--	--	--
03-14-2012	1016	--	--	--	--	--	--	--	--	--
03-24-2012	2305	--	--	--	--	815	--	--	--	--
03-24-2012	2306	--	--	--	--	--	--	--	--	--
03-25-2012	0215	--	--	--	--	--	--	--	--	--
03-25-2012	0216	--	--	--	--	--	--	--	--	--
04-25-2012	0846	<.016	<.30	<.02	<.70	<3.2	<4.6	<.04	<.4	<.005
04-25-2012	0852	<.016	<.30	<.02	<.70	<3.2	<4.6	<.04	<.4	<.005
04-25-2012	0915	.127	<.30	.08	<.70	1,070	90.3	.07	16.2	<.005
08-21-2012	1245	--	--	--	--	--	--	--	--	--
09-03-2012	1825	--	--	--	--	519	--	--	--	--
09-18-2012	1635	--	--	--	--	--	--	--	--	--
09-18-2012	1705	.059	1.7	3.5	6.2	--	5,550	5.68	738	.026
09-18-2012	1805	--	--	--	--	506	--	--	--	--

02096846 CANE CREEK NEAR ORANGE GROVE, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Part 6 of 19

[ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; MF, membrane filter; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO₂, silicon dioxide; col/100 mL, colonies per 100 milliliters; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °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, µg/L (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, recoverable, µg/L (01002)	Selenium, water, unfiltered, recoverable, µg/L (01147)	Dichlorobenzene, water, unfiltered, recoverable, µg/L (34571)	Atrazine, water, unfiltered, recoverable, µg/L (39630)	Bromacil, water, unfiltered, recoverable, µg/L (30234)
11-04-2011	0715	<.05	0.51	<.015	5.8	0.64	0.106	0.04	<.16	<.16
11-29-2011	0835	.09	1.3	<.015	12.8	1.3	.206	.02	.20	<.16
11-29-2011	0836	--	--	--	--	--	--	--	--	--
12-09-2011	1230	--	--	--	--	--	--	--	--	--
12-13-2011	1200	--	--	--	--	--	--	--	--	--
02-02-2012	1145	--	--	--	--	--	--	--	--	--
02-02-2012	1146	--	--	--	--	--	--	--	--	--
03-03-2012	1100	--	--	--	--	--	--	--	--	--
03-03-2012	1101	--	--	--	--	--	--	--	--	--
03-14-2012	1015	--	--	--	--	--	--	--	--	--
03-14-2012	1016	--	--	--	--	--	--	--	--	--
03-24-2012	2305	--	--	--	--	--	--	--	--	--
03-24-2012	2306	--	--	--	--	--	--	--	--	--
03-25-2012	0215	--	--	--	--	--	--	--	--	--
03-25-2012	0216	--	--	--	--	--	--	--	--	--
04-25-2012	0846	.06	<.19	<.015	<3.0	<.28	<.050	--	--	--
04-25-2012	0852	<.05	<.19	<.015	<3.0	<.28	<.050	--	--	--
04-25-2012	0915	.08	.54	<.015	<3.0	.39	.108	--	--	--
08-21-2012	1245	--	--	--	--	--	--	--	--	--
09-03-2012	1825	--	--	--	--	--	--	--	--	--
09-18-2012	1635	--	--	--	--	--	--	--	--	--
09-18-2012	1705	.07	1.2	.022	17.5	1.5	.218	--	--	--
09-18-2012	1805	--	--	--	--	--	--	--	--	--

02096846 CANE CREEK NEAR ORANGE GROVE, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Part 7 of 19

[ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; MF, membrane filter; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO₂, silicon dioxide; col/100 mL, colonies per 100 milliliters; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Camphor, water, unfiltered, recoverable, µg/L (62817)	Carbaryl, water, unfiltered, recoverable, µg/L (39750)	Carbazole, water, unfiltered, recoverable, µg/L (77571)	pyrifos, water, unfiltered, recoverable, µg/L (38932)	DEET, water, unfiltered, recoverable, µg/L (61947)	Diazinon, water, unfiltered, recoverable, µg/L (39570)	Dichlorvos, water, unfiltered, recoverable, µg/L (30218)	Metalaxyl, water, unfiltered, recoverable, µg/L (04254)	Metolachlor, water, unfiltered, recoverable, µg/L (82612)
11-04-2011	0715	0.47	<.06	<.020	<.12	0.19	<.32	<.08	<.16	<.04
11-29-2011	0835	.17	<.06	<.020	<.12	.10	<.32	<.08	<.16	.22
11-29-2011	0836	--	--	--	--	--	--	--	--	--
12-09-2011	1230	--	--	--	--	--	--	--	--	--
12-13-2011	1200	--	--	--	--	--	--	--	--	--
02-02-2012	1145	--	--	--	--	--	--	--	--	--
02-02-2012	1146	--	--	--	--	--	--	--	--	--
03-03-2012	1100	--	--	--	--	--	--	--	--	--
03-03-2012	1101	--	--	--	--	--	--	--	--	--
03-14-2012	1015	--	--	--	--	--	--	--	--	--
03-14-2012	1016	--	--	--	--	--	--	--	--	--
03-24-2012	2305	--	--	--	--	--	--	--	--	--
03-24-2012	2306	--	--	--	--	--	--	--	--	--
03-25-2012	0215	--	--	--	--	--	--	--	--	--
03-25-2012	0216	--	--	--	--	--	--	--	--	--
04-25-2012	0846	--	--	--	--	--	--	--	--	--
04-25-2012	0852	--	--	--	--	--	--	--	--	--
04-25-2012	0915	--	--	--	--	--	--	--	--	--
08-21-2012	1245	--	--	--	--	--	--	--	--	--
09-03-2012	1825	--	--	--	--	--	--	--	--	--
09-18-2012	1635	--	--	--	--	--	--	--	--	--
09-18-2012	1705	--	--	--	--	--	--	--	--	--
09-18-2012	1805	--	--	--	--	--	--	--	--	--

02096846 CANE CREEK NEAR ORANGE GROVE, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Part 8 of 19

[ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; MF, membrane filter; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO₂, silicon dioxide; col/100 mL, colonies per 100 milliliters; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	p-Cresol, water, unfiltered, recover- able, µg/L (77146)	Penta- chloro- phenol, water, unfiltered, recover- able, µg/L (39032)	Prometon, water, unfiltered, recover- able, µg/L (39056)	Thiabenda- zole, water, filtered, recoverabl- e, µg/L microgram s per liter (62801)	Dimethylx- anthine, water, filtered, recoverabl- e, µg/L microgram s per liter (62030)	1-Methyl- naphtha- lene, water, unfiltered, recover- able, µg/L (81696)	2,6-Di- methyl- naphtha- lene, water, unfiltered, recover- able, µg/L (62805)	2-Methyl- naphtha- lene, water, unfiltered, recover- able, µg/L (30194)	3,4-Di- chloro- phenyl iso- cyanate, water, unfiltered, recover- able, µg/L (63145)
11-04-2011	0715	0.21	< 1.6	< .16	< .060	< .100	< .04	< .04	E .01	< .32
11-29-2011	0835	.05	< 1.6	< .16	< .060	< .100	< .04	< .04	< .04	< .32
11-29-2011	0836	--	--	--	--	--	--	--	--	--
12-09-2011	1230	--	--	--	--	--	--	--	--	--
12-13-2011	1200	--	--	--	--	--	--	--	--	--
02-02-2012	1145	--	--	--	--	--	--	--	--	--
02-02-2012	1146	--	--	--	--	--	--	--	--	--
03-03-2012	1100	--	--	--	--	--	--	--	--	--
03-03-2012	1101	--	--	--	--	--	--	--	--	--
03-14-2012	1015	--	--	--	--	--	--	--	--	--
03-14-2012	1016	--	--	--	--	--	--	--	--	--
03-24-2012	2305	--	--	--	--	--	--	--	--	--
03-24-2012	2306	--	--	--	--	--	--	--	--	--
03-25-2012	0215	--	--	--	--	--	--	--	--	--
03-25-2012	0216	--	--	--	--	--	--	--	--	--
04-25-2012	0846	--	--	--	--	--	--	--	--	--
04-25-2012	0852	--	--	--	--	--	--	--	--	--
04-25-2012	0915	--	--	--	--	--	--	--	--	--
08-21-2012	1245	--	--	--	--	--	--	--	--	--
09-03-2012	1825	--	--	--	--	--	--	--	--	--
09-18-2012	1635	--	--	--	--	--	--	--	--	--
09-18-2012	1705	--	--	--	--	--	--	--	--	--
09-18-2012	1805	--	--	--	--	--	--	--	--	--

02096846 CANE CREEK NEAR ORANGE GROVE, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Part 9 of 19

[ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; MF, membrane filter; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO₂, silicon dioxide; col/100 mL, colonies per 100 milliliters; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	3-beta-Co-prostanol, 1H-indole, water, unfiltered, recoverable, µg/L (62806)		3-Methylhydroxy-anisole, water, unfiltered, recoverable, µg/L (62807)		3-tert-Butyl-4-hydroxy-phenol, water, unfiltered, recoverable, µg/L (61702)		4-Cumyl-phenol, water, unfiltered, recoverable, µg/L (62808)		Epichlorotetracycline, hydrochloride, water, filtered, recoverabl e, microgram s per liter (63731)		4-Epoxytetracycline, hydrochloride, water, filtered, recoverabl e, microgram s per liter (63729)		4-n-Octylphenol, water, unfiltered, recoverabl e, microgram s per liter (63727)		4-Nonylphenol (sum of all isomers), water, unfiltered, recoverable, µg/L (62809)	
		4-tert-Butyl-4-hydroxy-phenol, water, unfiltered, recoverable, µg/L (61702)	4-Cumyl-phenol, water, unfiltered, recoverable, µg/L (62808)	Epichlorotetracycline, hydrochloride, water, filtered, recoverabl e, microgram s per liter (63731)	4-Epoxytetracycline, hydrochloride, water, filtered, recoverabl e, microgram s per liter (63729)	4-n-Octylphenol, water, unfiltered, recoverabl e, microgram s per liter (63727)	4-Nonylphenol (sum of all isomers), water, unfiltered, recoverable, µg/L (62809)										
11-04-2011	0715	< 3.5	< .04	< .16	< .04	< .010	< .010	< .010	< .010	< .02	E 1.0						
11-29-2011	0835	E .6	< .04	< .16	< .04	< .010	< .010	< .010	< .010	< .02	E .5						
11-29-2011	0836	--	--	--	--	--	--	--	--	--	--						
12-09-2011	1230	--	--	--	--	--	--	--	--	--	--						
12-13-2011	1200	--	--	--	--	--	--	--	--	--	--						
02-02-2012	1145	--	--	--	--	--	--	--	--	--	--						
02-02-2012	1146	--	--	--	--	--	--	--	--	--	--						
03-03-2012	1100	--	--	--	--	--	--	--	--	--	--						
03-03-2012	1101	--	--	--	--	--	--	--	--	--	--						
03-14-2012	1015	--	--	--	--	--	--	--	--	--	--						
03-14-2012	1016	--	--	--	--	--	--	--	--	--	--						
03-24-2012	2305	--	--	--	--	--	--	--	--	--	--						
03-24-2012	2306	--	--	--	--	--	--	--	--	--	--						
03-25-2012	0215	--	--	--	--	--	--	--	--	--	--						
03-25-2012	0216	--	--	--	--	--	--	--	--	--	--						
04-25-2012	0846	--	--	--	--	--	--	--	--	--	--						
04-25-2012	0852	--	--	--	--	--	--	--	--	--	--						
04-25-2012	0915	--	--	--	--	--	--	--	--	--	--						
08-21-2012	1245	--	--	--	--	--	--	--	--	--	--						
09-03-2012	1825	--	--	--	--	--	--	--	--	--	--						
09-18-2012	1635	--	--	--	--	--	--	--	--	--	--						
09-18-2012	1705	--	--	--	--	--	--	--	--	--	--						
09-18-2012	1805	--	--	--	--	--	--	--	--	--	--						

02096846 CANE CREEK NEAR ORANGE GROVE, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Part 10 of 19

[ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; MF, membrane filter; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO₂, silicon dioxide; col/100 mL, colonies per 100 milliliters; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	4-Nonyl-phenol di-ethoxylate (sum of all isomers), water, unfiltered, recoverable, µg/L (61703)	4-Nonyl-phenol mono-ethoxylate (sum of all isomers), water, unfiltered, recoverable, µg/L (61704)	4-tert-Octyl-phenol ethoxylate, water, unfiltered, recoverable, µg/L (62486)	Octyl-phenol ethoxylate, water, unfiltered, recoverable, µg/L (62485)	4-tert-Octyl-phenol, water, unfiltered, recoverable, µg/L (62810)	5-Methyl-1H-benzotriazole, water, unfiltered, recoverable, µg/L (61944)	9,10-Anthraquinone, water, unfiltered, recoverable, µg/L (62813)	Acetaminophen, water, filtered, recoverable, micrograms per liter (62000)	Acetophenone, water, unfiltered, recoverable, µg/L (62811)
11-04-2011	0715	< 1.6	< 1.6	< .2	< .6	< .4	< .32	< .04	< .120	0.9
11-29-2011	0835	E .7	E .34	< .2	< .6	< .4	< 1.28	< .04	< .120	< .4
11-29-2011	0836	--	--	--	--	--	--	--	--	--
12-09-2011	1230	--	--	--	--	--	--	--	--	--
12-13-2011	1200	--	--	--	--	--	--	--	--	--
02-02-2012	1145	--	--	--	--	--	--	--	--	--
02-02-2012	1146	--	--	--	--	--	--	--	--	--
03-03-2012	1100	--	--	--	--	--	--	--	--	--
03-03-2012	1101	--	--	--	--	--	--	--	--	--
03-14-2012	1015	--	--	--	--	--	--	--	--	--
03-14-2012	1016	--	--	--	--	--	--	--	--	--
03-24-2012	2305	--	--	--	--	--	--	--	--	--
03-24-2012	2306	--	--	--	--	--	--	--	--	--
03-25-2012	0215	--	--	--	--	--	--	--	--	--
03-25-2012	0216	--	--	--	--	--	--	--	--	--
04-25-2012	0846	--	--	--	--	--	--	--	--	--
04-25-2012	0852	--	--	--	--	--	--	--	--	--
04-25-2012	0915	--	--	--	--	--	--	--	--	--
08-21-2012	1245	--	--	--	--	--	--	--	--	--
09-03-2012	1825	--	--	--	--	--	--	--	--	--
09-18-2012	1635	--	--	--	--	--	--	--	--	--
09-18-2012	1705	--	--	--	--	--	--	--	--	--
09-18-2012	1805	--	--	--	--	--	--	--	--	--

02096846 CANE CREEK NEAR ORANGE GROVE, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Part 11 of 19

[ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; MF, membrane filter; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO₂, silicon dioxide; col/100 mL, colonies per 100 milliliters; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Acetyl		Anhydroer		tetrahydro		naph-		Albuterol,		hromycin,		Anthra-		Azithromyc		BDE		Benzo[a]-		pyrene,		Benzo-		Sitos-	
		hexa-	methyl	thylene,	water,	water,	unfiltered,	recoverabl	recoverabl	recoverabl	recoverabl	recoverabl	recoverabl	recoverabl	recoverabl	recoverabl	recoverabl	recoverabl	recoverabl	recoverabl	recoverabl	recoverabl	recoverabl	recoverabl	recoverabl	recoverabl	recoverabl
		recover- able, µg/L (62812)	recover- able, µg/L (62020)	recover- able, µg/L (63674)	recover- able, µg/L (34220)	recover- able, µg/L (62792)	recover- able, µg/L (63147)	recover- able, µg/L (34247)	recover- able, µg/L (62814)	recover- able, µg/L (62815)																	
11-04-2011	0715	<.04	<.080	<.005	<.02	<.005	<.04	<.02	0.06	E 1.5																	
11-29-2011	0835	<.04	<.080	<.005	<.02	<.005	<.04	<.02	.05	< 4.8																	
11-29-2011	0836	--	--	--	--	--	--	--	--	--																	
12-09-2011	1230	--	--	--	--	--	--	--	--	--																	
12-13-2011	1200	--	--	--	--	--	--	--	--	--																	
02-02-2012	1145	--	--	--	--	--	--	--	--	--																	
02-02-2012	1146	--	--	--	--	--	--	--	--	--																	
03-03-2012	1100	--	--	--	--	--	--	--	--	--																	
03-03-2012	1101	--	--	--	--	--	--	--	--	--																	
03-14-2012	1015	--	--	--	--	--	--	--	--	--																	
03-14-2012	1016	--	--	--	--	--	--	--	--	--																	
03-24-2012	2305	--	--	--	--	--	--	--	--	--																	
03-24-2012	2306	--	--	--	--	--	--	--	--	--																	
03-25-2012	0215	--	--	--	--	--	--	--	--	--																	
03-25-2012	0216	--	--	--	--	--	--	--	--	--																	
04-25-2012	0846	--	--	--	--	--	--	--	--	--																	
04-25-2012	0852	--	--	--	--	--	--	--	--	--																	
04-25-2012	0915	--	--	--	--	--	--	--	--	--																	
08-21-2012	1245	--	--	--	--	--	--	--	--	--																	
09-03-2012	1825	--	--	--	--	--	--	--	--	--																	
09-18-2012	1635	--	--	--	--	--	--	--	--	--																	
09-18-2012	1705	--	--	--	--	--	--	--	--	--																	
09-18-2012	1805	--	--	--	--	--	--	--	--	--																	

02096846 CANE CREEK NEAR ORANGE GROVE, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Part 12 of 19

[ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; MF, membrane filter; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO₂, silicon dioxide; col/100 mL, colonies per 100 milliliters; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Bis(2-beta-Stig-ethylhexyl) mastanol, water, unfiltered, recoverable, µg/L (61948)	phthalate, water, unfiltered, recoverable, µg/L (39100)	Bisphenol A, water, unfiltered, recoverable, µg/L (62816)	Caffeine, water, filtered, recoverable, µg/L (50305)	Caffeine, water, unfiltered, recoverable, µg/L (81436)	Carbamaze pine, water, filtered, recoverable, µg/L (62793)	Chloramph enicol, water, filtered, recoverable, µg/L (65194)	Chlortetra cycline, water, filtered, recoverable, µg/L (61744)	Cholesterol, water, unfiltered, recoverable, µg/L (62818)
11-04-2011	0715	E .5	< 2	< .06	< .060	< .08	< .005	< .100	< .010	E 2.0
11-29-2011	0835	< 3.4	< 2	< .04	< .060	.06	< .005	< .100	< .010	E 1.1
11-29-2011	0836	--	--	--	--	--	--	--	--	--
12-09-2011	1230	--	--	--	--	--	--	--	--	--
12-13-2011	1200	--	--	--	--	--	--	--	--	--
02-02-2012	1145	--	--	--	--	--	--	--	--	--
02-02-2012	1146	--	--	--	--	--	--	--	--	--
03-03-2012	1100	--	--	--	--	--	--	--	--	--
03-03-2012	1101	--	--	--	--	--	--	--	--	--
03-14-2012	1015	--	--	--	--	--	--	--	--	--
03-14-2012	1016	--	--	--	--	--	--	--	--	--
03-24-2012	2305	--	--	--	--	--	--	--	--	--
03-24-2012	2306	--	--	--	--	--	--	--	--	--
03-25-2012	0215	--	--	--	--	--	--	--	--	--
03-25-2012	0216	--	--	--	--	--	--	--	--	--
04-25-2012	0846	--	--	--	--	--	--	--	--	--
04-25-2012	0852	--	--	--	--	--	--	--	--	--
04-25-2012	0915	--	--	--	--	--	--	--	--	--
08-21-2012	1245	--	--	--	--	--	--	--	--	--
09-03-2012	1825	--	--	--	--	--	--	--	--	--
09-18-2012	1635	--	--	--	--	--	--	--	--	--
09-18-2012	1705	--	--	--	--	--	--	--	--	--
09-18-2012	1805	--	--	--	--	--	--	--	--	--

02096846 CANE CREEK NEAR ORANGE GROVE, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Part 13 of 19

[ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; MF, membrane filter; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO₂, silicon dioxide; col/100 mL, colonies per 100 milliliters; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Ciprofloxacin, water, filtered, recoverable	Codeine, water, filtered, recoverable	Cotinine, water, filtered, recoverable	Cotinine, water, unfiltered, recoverable	Dehydronifedipine, water, filtered, recoverable	Diethyl phthalate, water, unfiltered, recoverable	Diltiazem, water, filtered, recoverable	Diphenhydramine, water, filtered, recoverable	D-Limonene, water, unfiltered, recoverable
		e, microgram s per liter (62898)	e, microgram s per liter (62003)	µg/L (62005)	µg/L (61945)	e, microgram s per liter (62004)	µg/L (34336)	e, microgram s per liter (62008)	µg/L (62796)	µg/L (62819)
11-04-2011	0715	<.005	<.046	<.038	<.08	<.080	0.3	<.060	<.058	<.16
11-29-2011	0835	<.005	<.046	<.038	<.08	<.080	.1	<.060	<.058	<.16
11-29-2011	0836	--	--	--	--	--	--	--	--	--
12-09-2011	1230	--	--	--	--	--	--	--	--	--
12-13-2011	1200	--	--	--	--	--	--	--	--	--
02-02-2012	1145	--	--	--	--	--	--	--	--	--
02-02-2012	1146	--	--	--	--	--	--	--	--	--
03-03-2012	1100	--	--	--	--	--	--	--	--	--
03-03-2012	1101	--	--	--	--	--	--	--	--	--
03-14-2012	1015	--	--	--	--	--	--	--	--	--
03-14-2012	1016	--	--	--	--	--	--	--	--	--
03-24-2012	2305	--	--	--	--	--	--	--	--	--
03-24-2012	2306	--	--	--	--	--	--	--	--	--
03-25-2012	0215	--	--	--	--	--	--	--	--	--
03-25-2012	0216	--	--	--	--	--	--	--	--	--
04-25-2012	0846	--	--	--	--	--	--	--	--	--
04-25-2012	0852	--	--	--	--	--	--	--	--	--
04-25-2012	0915	--	--	--	--	--	--	--	--	--
08-21-2012	1245	--	--	--	--	--	--	--	--	--
09-03-2012	1825	--	--	--	--	--	--	--	--	--
09-18-2012	1635	--	--	--	--	--	--	--	--	--
09-18-2012	1705	--	--	--	--	--	--	--	--	--
09-18-2012	1805	--	--	--	--	--	--	--	--	--

02096846 CANE CREEK NEAR ORANGE GROVE, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Part 14 of 19

[ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; MF, membrane filter; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO₂, silicon dioxide; col/100 mL, colonies per 100 milliliters; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Doxycyclin e, water, filtered (0.7 micron glass fiber filter), recoverabl e, e, recoverabl	Enrofloxac in, water, filtered, recoverabl e, e, recoverabl	Erythromyc in, water, filtered, recoverabl e, e, recoverabl	Fluoran- thene, water, unfiltered, recover- able, able,	benzo- pyran, water, unfiltered, recover- able, able,	Ibuprofen, water, filtered, recover- able, e,	Indole, water, unfiltered, recover- able, e,	Isoborneol, water, unfiltered, recover- able, e,	Isochlortet- racycline, water, filtered, recoverabl e, e, recoverabl
		microgram s per liter (62694)	microgram s per liter (66495)	microgram s per liter (62797)	µg/L (34376)	µg/L (62823)	microgram s per liter (62014)	µg/L (62824)	µg/L (62825)	microgram s per liter (64175)
11-04-2011	0715	<.010	<.005	<.008	<.02	<.04	<.050	<.04	<.090	<.010
11-29-2011	0835	<.010	<.005	<.008	<.02	<.04	<.050	<.04	<.090	<.010
11-29-2011	0836	--	--	--	--	--	--	--	--	--
12-09-2011	1230	--	--	--	--	--	--	--	--	--
12-13-2011	1200	--	--	--	--	--	--	--	--	--
02-02-2012	1145	--	--	--	--	--	--	--	--	--
02-02-2012	1146	--	--	--	--	--	--	--	--	--
03-03-2012	1100	--	--	--	--	--	--	--	--	--
03-03-2012	1101	--	--	--	--	--	--	--	--	--
03-14-2012	1015	--	--	--	--	--	--	--	--	--
03-14-2012	1016	--	--	--	--	--	--	--	--	--
03-24-2012	2305	--	--	--	--	--	--	--	--	--
03-24-2012	2306	--	--	--	--	--	--	--	--	--
03-25-2012	0215	--	--	--	--	--	--	--	--	--
03-25-2012	0216	--	--	--	--	--	--	--	--	--
04-25-2012	0846	--	--	--	--	--	--	--	--	--
04-25-2012	0852	--	--	--	--	--	--	--	--	--
04-25-2012	0915	--	--	--	--	--	--	--	--	--
08-21-2012	1245	--	--	--	--	--	--	--	--	--
09-03-2012	1825	--	--	--	--	--	--	--	--	--
09-18-2012	1635	--	--	--	--	--	--	--	--	--
09-18-2012	1705	--	--	--	--	--	--	--	--	--
09-18-2012	1805	--	--	--	--	--	--	--	--	--

02096846 CANE CREEK NEAR ORANGE GROVE, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Part 15 of 19

[ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; MF, membrane filter; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO₂, silicon dioxide; col/100 mL, colonies per 100 milliliters; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Isoepichlorotetracycline, water, filtered, recoverable e, microgram s per liter (64047)	Iso-phorone, unfiltered, recoverable e, µg/L (34408)	Isopropylbenzene, unfiltered, recoverable e, µg/L (77223)	Iso-quinoline, unfiltered, recoverable e, µg/L (62826)	Lincomycin, n, water, filtered, recoverable e, microgram s per liter (62894)	Lomefloxacin, cin, water, recoverable e, microgram s per liter (62900)	Methyl Menthol, water, unfiltered, recoverable e, µg/L (62827)	salicylate, water, unfiltered, recoverable e, µg/L (62828)	Naphthalene, water, unfiltered, recoverable e, µg/L (34696)
11-04-2011	0715	<.010	0.058	<.04	<.44	<.005	<.005	<.43	0.04	<.02
11-29-2011	0835	<.010	<.050	<.04	<.04	<.005	<.005	<.32	<.08	<.02
11-29-2011	0836	--	--	--	--	--	--	--	--	--
12-09-2011	1230	--	--	--	--	--	--	--	--	--
12-13-2011	1200	--	--	--	--	--	--	--	--	--
02-02-2012	1145	--	--	--	--	--	--	--	--	--
02-02-2012	1146	--	--	--	--	--	--	--	--	--
03-03-2012	1100	--	--	--	--	--	--	--	--	--
03-03-2012	1101	--	--	--	--	--	--	--	--	--
03-14-2012	1015	--	--	--	--	--	--	--	--	--
03-14-2012	1016	--	--	--	--	--	--	--	--	--
03-24-2012	2305	--	--	--	--	--	--	--	--	--
03-24-2012	2306	--	--	--	--	--	--	--	--	--
03-25-2012	0215	--	--	--	--	--	--	--	--	--
03-25-2012	0216	--	--	--	--	--	--	--	--	--
04-25-2012	0846	--	--	--	--	--	--	--	--	--
04-25-2012	0852	--	--	--	--	--	--	--	--	--
04-25-2012	0915	--	--	--	--	--	--	--	--	--
08-21-2012	1245	--	--	--	--	--	--	--	--	--
09-03-2012	1825	--	--	--	--	--	--	--	--	--
09-18-2012	1635	--	--	--	--	--	--	--	--	--
09-18-2012	1705	--	--	--	--	--	--	--	--	--
09-18-2012	1805	--	--	--	--	--	--	--	--	--

02096846 CANE CREEK NEAR ORANGE GROVE, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Part 16 of 19

[ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; MF, membrane filter; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO₂, silicon dioxide; col/100 mL, colonies per 100 milliliters; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Norfloxaci			Oxytetracy			Roxithrom		
		n, water, filtered (0.7 micron glass fiber filter), recoverabl e, microgram s per liter (62757)	Ofloxacin, water, filtered, recoverabl e, microgram s per liter (62899)	unfiltered, mg/L (00680)	Ormetopri m. water, filtered, recoverabl e, microgram s per liter (62962)	cline, water, filtered, recoverabl e, microgram s per liter (61759)	Phenan- threne, water, unfiltered, recover- able, µg/L (34461)	Phenol, water, unfiltered, recover- able, µg/L (34694)	Pyrene, water, unfiltered, recover- able, µg/L (34469)	ycin, water, filtered, recoverabl e, microgram s per liter (62895)
11-04-2011	0715	<.005	<.005	13.3	<.005	<.010	<.02	0.89	<.02	<.005
11-29-2011	0835	<.005	<.005	23.7	<.005	<.010	<.02	<.16	<.02	<.005
11-29-2011	0836	--	--	--	--	--	--	--	--	--
12-09-2011	1230	--	--	9.8	--	--	--	--	--	--
12-13-2011	1200	--	--	--	--	--	--	--	--	--
02-02-2012	1145	--	--	4.7	--	--	--	--	--	--
02-02-2012	1146	--	--	--	--	--	--	--	--	--
03-03-2012	1100	--	--	23.6	--	--	--	--	--	--
03-03-2012	1101	--	--	--	--	--	--	--	--	--
03-14-2012	1015	--	--	--	--	--	--	--	--	--
03-14-2012	1016	--	--	--	--	--	--	--	--	--
03-24-2012	2305	--	--	--	--	--	--	--	--	--
03-24-2012	2306	--	--	--	--	--	--	--	--	--
03-25-2012	0215	--	--	--	--	--	--	--	--	--
03-25-2012	0216	--	--	--	--	--	--	--	--	--
04-25-2012	0846	--	--	<.5	--	--	--	--	--	--
04-25-2012	0852	--	--	<.5	--	--	--	--	--	--
04-25-2012	0915	--	--	7.4	--	--	--	--	--	--
08-21-2012	1245	--	--	6.3	--	--	--	--	--	--
09-03-2012	1825	--	--	--	--	--	--	--	--	--
09-18-2012	1635	--	--	--	--	--	--	--	--	--
09-18-2012	1705	--	--	27.5	--	--	--	--	--	--
09-18-2012	1805	--	--	--	--	--	--	--	--	--

02096846 CANE CREEK NEAR ORANGE GROVE, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Part 17 of 19

[ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; MF, membrane filter; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO₂, silicon dioxide; col/100 mL, colonies per 100 milliliters; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Sulfachlor Sarafloxac in, water, filtered (0.7 micron glass fiber filter), recoverabl e,	Sulfadimet pyridazine, water, filtered (0.7 micron glass fiber filter), recoverabl e,	Sulfameth oxazine, water, filtered (0.7 micron glass fiber filter), recoverabl e,	Sulfameth ole, water, filtered (0.7 micron glass fiber filter), recoverabl e,	Tetra- chloro- ethene, water, unfiltered, recover- able, µg/L				
		microgram s per liter (62771)	microgram s per liter (62774)	microgram s per liter (62963)	microgram s per liter (62776)	microgram s per liter (61762)	microgram s per liter (62775)	microgram s per liter (62021)	microgram s per liter (62778)	(34475)
11-04-2011	0715	<.005	<.005	<.005	<.005	<.005	<.005	<.091	<.005	<.16
11-29-2011	0835	<.005	<.005	<.005	<.005	<.005	<.005	<.091	<.005	<.16
11-29-2011	0836	--	--	--	--	--	--	--	--	--
12-09-2011	1230	--	--	--	--	--	--	--	--	--
12-13-2011	1200	--	--	--	--	--	--	--	--	--
02-02-2012	1145	--	--	--	--	--	--	--	--	--
02-02-2012	1146	--	--	--	--	--	--	--	--	--
03-03-2012	1100	--	--	--	--	--	--	--	--	--
03-03-2012	1101	--	--	--	--	--	--	--	--	--
03-14-2012	1015	--	--	--	--	--	--	--	--	--
03-14-2012	1016	--	--	--	--	--	--	--	--	--
03-24-2012	2305	--	--	--	--	--	--	--	--	--
03-24-2012	2306	--	--	--	--	--	--	--	--	--
03-25-2012	0215	--	--	--	--	--	--	--	--	--
03-25-2012	0216	--	--	--	--	--	--	--	--	--
04-25-2012	0846	--	--	--	--	--	--	--	--	--
04-25-2012	0852	--	--	--	--	--	--	--	--	--
04-25-2012	0915	--	--	--	--	--	--	--	--	--
08-21-2012	1245	--	--	--	--	--	--	--	--	--
09-03-2012	1825	--	--	--	--	--	--	--	--	--
09-18-2012	1635	--	--	--	--	--	--	--	--	--
09-18-2012	1705	--	--	--	--	--	--	--	--	--
09-18-2012	1805	--	--	--	--	--	--	--	--	--

02096846 CANE CREEK NEAR ORANGE GROVE, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Part 18 of 19

[ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; MF, membrane filter; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO₂, silicon dioxide; col/100 mL, colonies per 100 milliliters; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Tetracycline, water, filtered (0.7 micron glass fiber filter), recoverable, microgram s per liter (62781)	Tribromo-methane, water, recoverable, µg/L (32104)	Tributyl phosphate, water, recoverable, µg/L (62832)	Triclosan, water, recoverable, µg/L (61708)	Triethyl citrate, water, recoverable, µg/L (62833)	Trimethoprim, water, recoverable, µg/L (62023)	Triphenyl phosphate, water, recoverable, µg/L (62834)	Tris(2-butoxyethyl) phosphate, water, recoverable, µg/L (62830)	Tris(2-chloroethyl) phosphate, water, recoverable, µg/L (62831)
11-04-2011	0715	<.010	<.16	<.064	<.32	<.04	<.005	<.08	<.64	<.16
11-29-2011	0835	<.010	<.16	<.064	<.32	<.04	<.005	<.08	<.64	<.16
11-29-2011	0836	--	--	--	--	--	--	--	--	--
12-09-2011	1230	--	--	--	--	--	--	--	--	--
12-13-2011	1200	--	--	--	--	--	--	--	--	--
02-02-2012	1145	--	--	--	--	--	--	--	--	--
02-02-2012	1146	--	--	--	--	--	--	--	--	--
03-03-2012	1100	--	--	--	--	--	--	--	--	--
03-03-2012	1101	--	--	--	--	--	--	--	--	--
03-14-2012	1015	--	--	--	--	--	--	--	--	--
03-14-2012	1016	--	--	--	--	--	--	--	--	--
03-24-2012	2305	--	--	--	--	--	--	--	--	--
03-24-2012	2306	--	--	--	--	--	--	--	--	--
03-25-2012	0215	--	--	--	--	--	--	--	--	--
03-25-2012	0216	--	--	--	--	--	--	--	--	--
04-25-2012	0846	--	--	--	--	--	--	--	--	--
04-25-2012	0852	--	--	--	--	--	--	--	--	--
04-25-2012	0915	--	--	--	--	--	--	--	--	--
08-21-2012	1245	--	--	--	--	--	--	--	--	--
09-03-2012	1825	--	--	--	--	--	--	--	--	--
09-18-2012	1635	--	--	--	--	--	--	--	--	--
09-18-2012	1705	--	--	--	--	--	--	--	--	--
09-18-2012	1805	--	--	--	--	--	--	--	--	--

02096846 CANE CREEK NEAR ORANGE GROVE, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Part 19 of 19

[ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; MF, membrane filter; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO₂, silicon dioxide; col/100 mL, colonies per 100 milliliters; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Tris(di-chloroisopropyl) phosphate, unfiltered, recoverable, e,	Tylosin, water, filtered, recoverabl e,	Virginiamycin, cin, water, filtered, recoverabl e,	Warfarin, water, filtered, recoverabl e,	Suspended sediment concentration, mg/L
		µg/L (61707)	microgram s per liter (62896)	microgram s per liter (62897)	microgram s per liter (62024)	(80154)
11-04-2011	0715	< .32	< .010	< .005	< .080	--
11-29-2011	0835	< .32	< .010	< .005	< .080	--
11-29-2011	0836	--	--	--	--	--
12-09-2011	1230	--	--	--	--	14
12-13-2011	1200	--	--	--	--	--
02-02-2012	1145	--	--	--	--	--
02-02-2012	1146	--	--	--	--	--
03-03-2012	1100	--	--	--	--	--
03-03-2012	1101	--	--	--	--	--
03-14-2012	1015	--	--	--	--	--
03-14-2012	1016	--	--	--	--	--
03-24-2012	2305	--	--	--	--	--
03-24-2012	2306	--	--	--	--	--
03-25-2012	0215	--	--	--	--	--
03-25-2012	0216	--	--	--	--	--
04-25-2012	0846	--	--	--	--	--
04-25-2012	0852	--	--	--	--	--
04-25-2012	0915	--	--	--	--	14
08-21-2012	1245	--	--	--	--	13
09-03-2012	1825	--	--	--	--	--
09-18-2012	1635	--	--	--	--	--
09-18-2012	1705	--	--	--	--	--
09-18-2012	1805	--	--	--	--	--