



Water-Data Report 2011

0209691604 COLLINS CREEK MIDSTREAM BELOW SECONDARY ROAD 1006 NEAR WHITE CROSS, NC

Cape Fear Basin
Haw Subbasin

LOCATION.--Lat 35°56'20.3", long 79°12'14.9" referenced to North American Datum of 1983, Orange County, NC, Hydrologic Unit 03030002, approximately 0.5 mi west of Orange Grove Road, and 1.6 mi northwest of White Cross, NC, located on Collins Creek upstream of the confluence of unnamed tributary 1 and unnamed tributary 2

DRAINAGE AREA.--2.55 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 2010.

REMARKS.--Station operated to evaluate effects of land-applied municipal biosolids on water quality.

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

Part 1 of 12

[%, percent; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; M, presence verified but not quantified]

Date	Sample start time	Medium name	Sample type	Barometric pressure, mm Hg (00025)	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)	Temperature, water, °C (00010)
12-20-2010	0930	Surface water	Regular	754	10.5	74	5.9	163	.8

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

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[%, percent; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; M, presence verified but not quantified]

Date	Sample start time	Hardness, water, mg/L as CaCO ₃ (00900)	Calcium, water, filtered, mg/L (00915)	Magnesium, water, filtered, mg/L (00925)	Potassium, water, filtered, mg/L (00935)	Sodium, water, filtered, mg/L (00930)	Chloride, water, filtered, mg/L (00940)	Sulfate, water, filtered, mg/L (00945)	Ammonia plus organic nitrogen, water, unfiltered, mg/L as N (00625)	Ammonia, water, filtered, mg/L as N (00608)
12-20-2010	0930	47.6	11.4	4.61	3.57	11.2	17.8	8.58	.54	< .010

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WATER-QUALITY DATA
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[%, percent; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; M, presence verified but not quantified]

Date	Sample start time	Nitrate plus nitrite, water, filtered, mg/L as N (00631)	Orthophosphate, water, filtered, mg/L as P (00671)	Phosphorus, water, unfiltered, mg/L as P (00665)	Iron, water, filtered, µg/L (01046)	1,4-Dichlorobenzene, water, unfiltered, recoverable, µg/L (34571)	Atrazine, water, unfiltered, recoverable, micrograms per liter (39630)	Bromacil, water, unfiltered, recoverable, micrograms per liter (30234)	Camphor, water, unfiltered, recoverable, micrograms per liter (62817)
12-20-2010	0930	2.57	.044	.072	613	M	<.16	<.2	M

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

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[%, percent; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; M, presence verified but not quantified]

Date	Sample start time	Carbaryl, water, unfiltered, recoverable, micrograms per liter (39750)	Carbazole, water, unfiltered, recoverable, micrograms per liter (77571)	Chlorpyrifos, water, unfiltered, recoverable, micrograms per liter (38932)	DEET, water, unfiltered, recoverable, micrograms per liter (61947)	Diazinon, water, unfiltered, recoverable, micrograms per liter (39570)	Dichlorvos, water, unfiltered, recoverable, micrograms per liter (30218)	Metalaxyl, water, unfiltered, recoverable, micrograms per liter (04254)	Metolachlor, water, unfiltered, recoverable, micrograms per liter (82612)	p-Cresol, water, unfiltered, recoverable, micrograms per liter (77146)
12-20-2010	0930	<0.06	<0.02	<.3	<0.04	<.3	<0.08	<.2	<0.04	M

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

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[%, percent; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; M, presence verified but not quantified]

Date	Sample start time	Pentachlorophenol, water, unfiltered, recoverable, µg/L (39032)	Prometon, water, unfiltered, recoverable, micrograms per liter (39056)	Thiabendazole, water, filtered, recoverable, micrograms per liter (62801)	1,7-Dimethylxanthine, water, filtered, recoverable, micrograms per liter (62030)	1-Methylnaphthalene, water, unfiltered, recoverable, micrograms per liter (81696)	2,6-Dimethylnaphthalene, water, unfiltered, recoverable, micrograms per liter (62805)	2-Methylnaphthalene, water, unfiltered, recoverable, micrograms per liter (30194)	3,4-Dichlorophenyl isocyanate, water, unfiltered, recoverable, micrograms per liter (63145)	3-beta-Coprostanol, water, unfiltered, recoverable, micrograms per liter (62806)
12-20-2010	0930	M	<.2	<.060	<.100	<0.04	<0.04	<0.04	<.32	<2

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

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[%, percent; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; <, less than; M, presence verified but not quantified]

Date	Sample start time	3-Methyl-1H-indole, water, unfiltered, recoverable,	3-tert-Butyl-4-hydroxyani sole, water, unfiltered, recoverable,	4-Cumylphenol, water, unfiltered, recoverable,	4-n-Octylphenol, water, unfiltered, recoverable,	4-Nonylphenol (sum of all isomers), water, unfiltered, recoverable,	4-Nonylphenol diethoxylate (sum of all isomers), water, unfiltered, recoverable,	4-Nonylphenol monoethoxylate (sum of all isomers), water, unfiltered, recoverable,	4-tert-Octylphenol diethoxylate, water, unfiltered, recoverable,	4-tert-Octylphenol monoethoxylate, water, unfiltered, recoverable,
		micrograms per liter (62807)	micrograms per liter (61702)	micrograms per liter (62808)	micrograms per liter (62809)	micrograms per liter (62829)	micrograms per liter (61703)	micrograms per liter (61704)	micrograms per liter (62486)	micrograms per liter (62485)
12-20-2010	0930	< 0.04	< 0.16	< 0.04	< 0.02	< 2	< 2	< 1.6	< 0.20	< 0.60

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[%, percent; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; <, less than; M, presence verified but not quantified]

Date	Sample start time	4-tert-Octylphenol, water, unfiltered, recoverable,	5-Methyl-1H-benzotriazole, water, unfiltered, recoverable,	9,10-Anthraquinone, water, unfiltered, recoverable,	Acetaminophen, water, filtered, recoverable,	Acetophenone, water, unfiltered, recoverable,	Acetyl hexamethyl tetrahydro naphthalene, water, unfiltered, recoverable,	Albuterol, water, filtered, recoverable,	Anthracene, water, unfiltered, recoverable,	BDE congener 47, water, unfiltered, recoverable,
		micrograms per liter (62810)	micrograms per liter (61944)	micrograms per liter (62813)	micrograms per liter (62000)	micrograms per liter (62811)	micrograms per liter (62812)	micrograms per liter (62020)	micrograms per liter (34220)	micrograms per liter (63147)
12-20-2010	0930	< 0.4	< 0.32	< 0.04	< .120	< .4	< 0.04	< .080	< 0.02	< 0.04

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WATER-QUALITY DATA
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Date	Sample start time	Benzo[a]-pyrene, water, unfiltered, recoverable, μg/L (34247)	Benzophenone, water, unfiltered, recoverable, micrograms per liter (62814)	beta-Sitosterol, water, unfiltered, recoverable, micrograms per liter (62815)	beta-Stigmastanol, water, unfiltered, recoverable, micrograms per liter (61948)	Bis(2-ethylhexyl) phthalate, water, unfiltered, recoverable, μg/L (39100)	Bisphenol A, water, unfiltered, recoverable, micrograms per liter (62816)	Caffeine, water, filtered, recoverable, μg/L (50305)	Caffeine, water, unfiltered, recoverable, micrograms per liter (81436)	Carbamazepine, water, filtered, recoverable, micrograms per liter (62793)
12-20-2010	0930	< 0.02	< .1	M	< 2	< 2	< 0.04	< .060	< .1	< .060

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[%, percent; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; <, less than; M, presence verified but not quantified]

Date	Sample start time	Cholesterol, water, unfiltered, recoverable, micrograms per liter (62818)	Codeine, water, filtered, recoverable, micrograms per liter (62003)	Cotinine, water, filtered, recoverable, μg/L (62005)	Cotinine, water, unfiltered, recoverable, micrograms per liter (61945)	Dehydronifedipine, water, filtered, recoverable, micrograms per liter (62004)	Diethyl phthalate, water, unfiltered, recoverable, μg/L (34336)	Diltiazem, water, filtered, recoverable, micrograms per liter (62008)	Diphenhydramine, water, filtered, recoverable, micrograms per liter (62796)	D-Limonene, water, unfiltered, recoverable, micrograms per liter (62819)
12-20-2010	0930	M	< .046	< .038	< 0.08	< .080	< .4	< .020	< .058	< .2

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[%, percent; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; <, less than; M, presence verified but not quantified]

Date	Sample start time	Fluoranthene, water, unfiltered, recoverable, μg/L (34376)	Hexahydrohexamethylcyclopenta benzopyran, water, unfiltered, recoverable, micrograms per liter (62823)	Indole, water, unfiltered, recoverable, micrograms per liter (62824)	Isoborneol, water, unfiltered, recoverable, micrograms per liter (62825)	Iso-phorone, water, unfiltered, recoverable, μg/L (34408)	Isopropylbenzene, water, unfiltered, recoverable, μg/L (77223)	Isoquinoline, water, unfiltered, recoverable, micrograms per liter (62826)	Menthol, water, unfiltered, recoverable, micrograms per liter (62827)	Methyl salicylate, water, unfiltered, recoverable, micrograms per liter (62828)
12-20-2010	0930	< 0.02	< 0.04	< 0.04	< .1	M	< 0.04	< 0.04	< .3	< .1

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WATER-QUALITY DATA
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[%, percent; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; <, less than; M, presence verified but not quantified]

Date	Sample start time	Naphthalene, water, unfiltered, recoverable, μg/L (34696)	Phenanthrene, water, unfiltered, recoverable, μg/L (34461)	Phenol, water, unfiltered, recoverable, μg/L (34694)	Pyrene, water, unfiltered, recoverable, μg/L (34469)	Sulfamethoxazole, water, filtered, recoverable, micrograms per liter (62021)	Tetrachloroethene, water, unfiltered, recoverable, μg/L (34475)	Tribromomethane, water, unfiltered, recoverable, μg/L (32104)	Tributyl phosphate, water, unfiltered, recoverable, micrograms per liter (62832)	Triclosan, water, unfiltered, recoverable, micrograms per liter (61708)
12-20-2010	0930	< 0.02	< 0.02	< .2	< 0.02	< .091	< .2	< .2	< 0.04	< 0.32

WATER-QUALITY DATA
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Date	Sample start time	Triethyl citrate, water, unfiltered, recoverable, micrograms per liter (62833)	Trimethoprim, water, filtered, recoverable, micrograms per liter (62023)	Triphenyl phosphate, water, unfiltered, recoverable, micrograms per liter (62834)	Tris(2-butoxyethyl) phosphate, water, unfiltered, recoverable, micrograms per liter (62830)	Tris(2-chloroethyl) phosphate, water, unfiltered, recoverable, micrograms per liter (62831)	Tris(dichloroisopropyl) phosphate, water, unfiltered, recoverable, micrograms per liter (61707)	Warfarin, water, filtered, recoverable, micrograms per liter (62024)
12-20-2010	0930	< 0.04	< .034	< .1	< .6	< .2	< .3	< .080