



Water-Data Report 2011

352746083011801 Local number HW-084 NEAR HYATT CREEK,NC

Piedmont and Blue Ridge crystalline-rock aquifers
Mafic Gneiss

Haywood County, NC

LOCATION.--Lat 35°27'46.1", long 83°01'18.1" referenced to North American Datum of 1983, Haywood County, NC, Hydrologic Unit 06010106, 1000 ft south of Hyatt Creek Road, 0.45 mi west of United States Highway 23 near Waynesville.

WATER-QUALITY RECORDS

WELL CHARACTERISTICS.--Reported depth 125 ft, casing diameter 6 in, cased to 40 ft.

DATUM.--Land-surface datum is 2,860 ft above National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--August 2010.

REMARKS.--Well sampled as part of a study evaluation the effect of septic systems on groundwater in Haywood County, North Carolina. Cooperators for the study include the Haywood Waterways Association, the North Carolina Department of Environment and Natural Resources, Division of Water Quality, Asheville Regional Office, the North Carolina Department of the Environment and Natural Resources, Division of Environmental Health, Wasterwater Discharge Elimination Program, Asheville Regional Office, and the North Carolina State University, Soil Science Department.

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

Part 1 of 8

[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; E, estimated]

Date	Sample start time	Medium name	Sample type	Barometric pressure, mm Hg (00025)	Dissolved oxygen, water, unfiltered, mg/L (00300)	pH, water, unfiltered, field, standard units (00400)	Specific conductance, water, unfiltered, µS/cm at 25 °C (00095)	Temperature, water, °C (00010)	Boron, water, filtered, µg/L (01020)	1,4-Dichloro-benzene, water, filtered, recoverable, µg/L (34572)
08-26-2010	1015	Groundwater	Regular	688	6.9	6.4	88	16.2	E 1.4	< 0.040

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WATER-QUALITY DATA
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[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; E, estimated]

Date	Sample start time	Bromacil, water, filtered, recoverable, µg/L (04029)	Camphor, water, filtered, recoverable, µg/L (62070)	Carbaryl, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82680)	Carbazole, water, filtered, recoverable, µg/L (62071)	Chlorpyrifos, water, filtered, recoverable, µg/L (38933)	DEET, water, filtered, recoverable, µg/L (62082)	Diazinon, water, filtered, recoverable, µg/L (39572)	Metalaxyl, water, filtered, recoverable, µg/L (50359)	Metolachlor, water, filtered, recoverable, µg/L (39415)
08-26-2010	1015	< .4	< 0.044	< 0.38	< 0.030	< .2	< .1	< .2	< .1	< .1

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[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; E, estimated]

Date	Sample start time	p-Cresol, water, filtered, recoverable, µg/L (62084)	Prometon, water, filtered, recoverable, µg/L (04037)	1-Methylnaphthalene, water, filtered, recoverable, µg/L (62054)	2,6-Dimethylnaphthalene, water, filtered, recoverable, µg/L (62055)	2-Methylnaphthalene, water, filtered, recoverable, µg/L (62056)	3-beta-Coprosanol, water, filtered, recoverable, µg/L (62057)	3-Methyl-1H-indole, water, filtered, recoverable, µg/L (62058)	3-tert-Butyl-4-hydroxyanisole, water, filtered, recoverable, µg/L (62059)	4-Cumylphenol, water, filtered, recoverable, µg/L (62060)
08-26-2010	1015	< .08	< .1	< 0.022	< .1	< 0.036	< 2	< 0.036	< 8	< 0.06

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[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; E, estimated]

Date	Sample start time	4-n-Octylphenol, water, filtered, recoverable, µg/L (62061)	4-Nonylphenol (sum of all isomers), water, filtered, recoverable, µg/L (62085)	4-Nonylphenol diethylate (sum of all isomers), water, filtered, recoverable, µg/L (62083)	4-tert-Octylphenol diethylate, water, filtered, recoverable, µg/L (61705)	4-tert-Octylphenol monoethoxylate, water, filtered, recoverable, µg/L (61706)	4-tert-Octylphenol, water, filtered, recoverable, µg/L (62062)	5-Methyl-1H-benzotriazole, water, filtered, recoverable, µg/L (62063)	9,10-Anthraquinone, water, filtered, recoverable, µg/L (62066)	Acetophenone, water, filtered, recoverable, µg/L (62064)
08-26-2010	1015	< 0.16	< 2	< 5	< 1	< 1	< 0.14	< 1	< .2	< .4

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[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; E, estimated]

Date	Sample start time	Acetyl hexa-methyl tetrahydro naphthalene, water, filtered, recoverable, µg/L (62065)	Anthracene, water, filtered, recoverable, µg/L (34221)	Benzo[a]-pyrene, water, filtered, recoverable, µg/L (34248)	Benzo-phenone, water, filtered, recoverable, µg/L (62067)	beta-Sitosterol, water, filtered, recoverable, µg/L (62068)	beta-Stigmasterol, water, filtered, recoverable, µg/L (62086)	Caffeine, water, filtered, recoverable, µg/L (50305)	Cholesterol, water, filtered, recoverable, µg/L (62072)	Cotinine, water, filtered, recoverable, µg/L (62005)
08-26-2010	1015	< 0.028	< 0.028	< .1	< .1	< 4	< 3	< .1	< 2	< .600

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Date	Sample start time	D-Limonene, water, filtered, recoverable, µg/L (62073)	Fluoranthene, water, filtered, recoverable, µg/L (34377)	Indole, water, filtered, recoverable, µg/L (62076)	Isoborneol, water, filtered, recoverable, µg/L (62077)	Iso-phorone, water, filtered, recoverable, µg/L (34409)	Isopropyl-benzene, water, filtered, recoverable, µg/L (62078)	Iso-quinoline, water, filtered, recoverable, µg/L (62079)	Menthol, water, filtered, recoverable, µg/L (62080)	Methyl salicylate, water, filtered, recoverable, µg/L (62081)
08-26-2010	1015	< .1	< 0.024	< .1	< .2	< .1	< .3	< 0.046	< .3	< 0.044

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[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; E, estimated]

Date	Sample start time	Naphthalene, water, filtered, recoverable, µg/L (34443)	Phenanthrene, water, filtered, recoverable, µg/L (34462)	Phenol, water, filtered, recoverable, µg/L (34466)	Pyrene, water, filtered, recoverable, µg/L (34470)	Tetra-chloro-ethene, water, filtered, recoverable, µg/L (34476)	Tribromo-methane, water, filtered, recoverable, µg/L (34288)	Tributyl phosphate, water, filtered, recoverable, µg/L (62089)	Triclosan, water, filtered, recoverable, µg/L (62090)	Triethyl citrate, water, filtered, recoverable, µg/L (62091)
08-26-2010	1015	< 0.040	< 0.032	< .2	< 0.042	< .1	< .1	< .2	< 0.20	< .4

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 estimated]

Date	Sample start time	Triphenyl	Tris(2-	Tris(2-	Tris(di-
		phosphate,	butoxy-	chloro-	chloroiso-
		water,	ethyl)	ethyl)	propyl)
		filtered,	phosphate,	phosphate,	phosphate,
		recover-	water,	water,	water,
		able,	filtered,	filtered,	filtered,
		µg/L	recover-	recover-	recover-
		(62092)	able,	able,	able,
			µg/L	µg/L	µg/L
			(62093)	(62087)	(62088)
08-26-2010	1015	< .1	< .8	< .1	< .2