



Water-Data Report 2009

362527076163201 Local number CA-087A, LU-03A, NEAR SOUTH MILLS, NC

Surficial aquifer system
Post Miocene (Quaternary + Pliocene) Rocks
Camden County, NC

LOCATION.--Lat 36°25'27", long 76°16'32" referenced to North American Datum of 1983, Camden County, NC, Hydrologic Unit 03020105, 1 mi northeast of North Carolina Highway 343 and 3.1 mi east of South Mills.

GROUNDWATER RECORDS

WELL CHARACTERISTICS.--Depth 10.65 ft. Upper casing diameter 2.0 in; top of first opening 6.65 ft, bottom of last opening 10.65 ft.

DATUM.--Land-surface datum is 13 ft above National Geodetic Vertical Datum of 1929. Measuring point: top of PVC casing, black mark, 2.10 ft above land-surface datum, April 11, 2007, to present.

PERIOD OF RECORD.--May 2007 to June 2009

GAGE.--Measured periodically with electric tape.

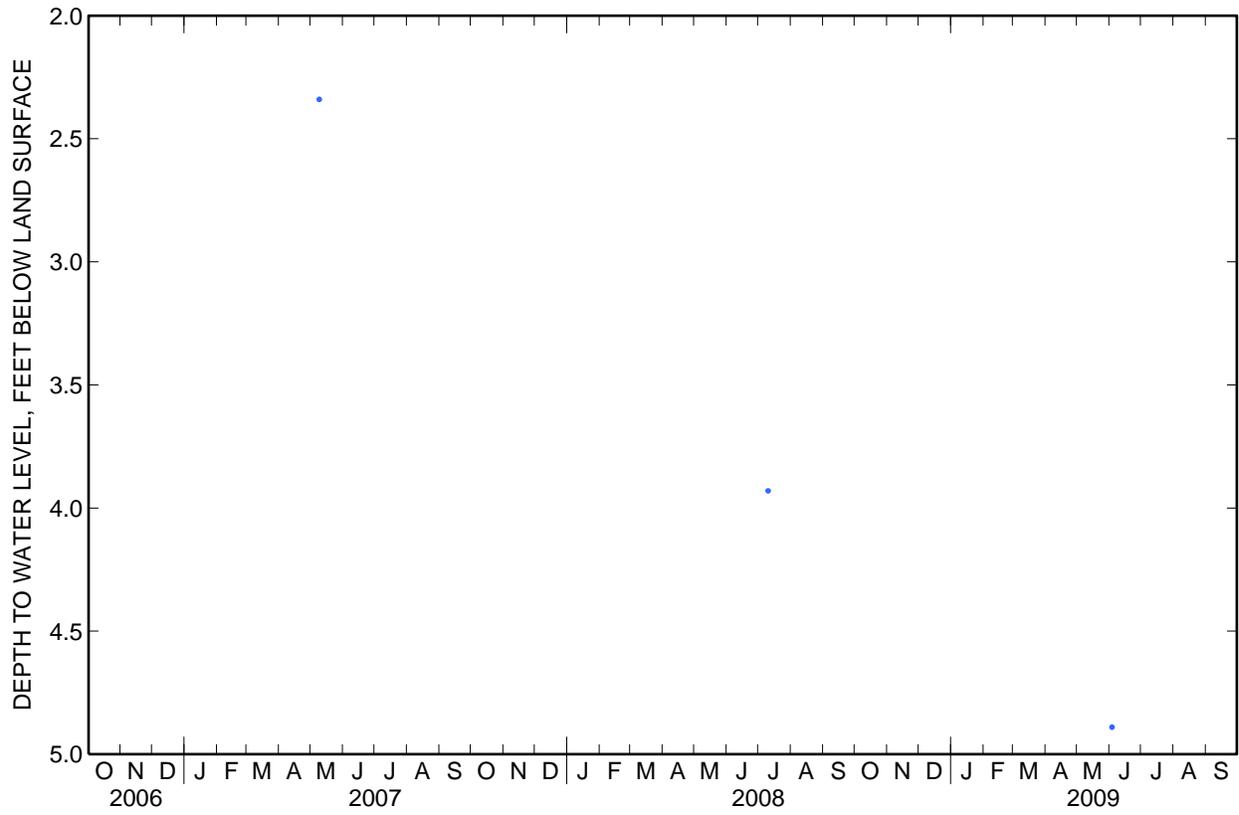
REMARKS.--Well measured as part of the National Water Quality Assessment (NAWQA) program.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.34 ft below land-surface datum, May 9, 2007; lowest water level measured, 4.89 ft below land-surface datum, June 3, 2009.

WATER LEVELS IN FEET BELOW LAND-SURFACE DATUM

Date	Water level
Jun 3, 2009	4.89

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WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 2007, June 2009.

REMARKS.--Well sampled as part of the National Water Quality Assessment Program (NAWQA).

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 1 of 11

[Remark codes: <, less than; E, estimated; U, analyzed for but not detected.]

Date	Time	Medium name	Sample type	Barometric pressure, mm Hg (00025)	Temperature, air, deg C (00020)	Depth to water level, feet below LSD (72019)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)
Jun 03...	1305	Ground water	Regular	762	30.0	2.79	.5	5

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 2 of 11

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Date	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unf μS/cm @ 25 degC (00095)	Temperature, water, deg C (00010)	Turbidity white light, det ang 90+/-30 corrctd NTRU (63676)	Water level, depth below MP, feet (61055)	Dissolved solids dried @ 180degC wat flt mg/L (70300)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt inf tit mg/L as CaCO3 (39086)	Bicarbonate, wat flt inf pt titr., field, mg/L (00453)
Jun 03...	5.4	454	18.7	1.0	4.89	284	50	7.35	7.57	1.40	50.4	44	54

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 3 of 11

[Remark codes: <, less than; E, estimated; U, analyzed for but not detected.]

Date	Bromide water, fltrd, mg/L (71870)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Hydrogen sulfide, water, unfltrd mg/L (71875)	Silica, water, fltrd, mg/L as SiO2 (00955)	Sulfate water, fltrd, mg/L (00945)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate + nitrite water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Total nitrogen, wat flt by anal mg/L (62854)	Aluminum, water, fltrd, μg/L (01106)	Barium, water, fltrd, μg/L (01005)
Jun 03...	.06	74.9	.20	U	39.6	39.4	.084	<.04	<.002	.080	.30	E3.0	61

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 4 of 11

[Remark codes: <, less than; E, estimated; U, analyzed for but not detected.]

Date	Beryllium, water, fltrd, µg/L (01010)	Cadmium, water, fltrd, µg/L (01025)	Chromium, water, fltrd, µg/L (01030)	Cobalt, water, fltrd, µg/L (01035)	Copper, water, fltrd, µg/L (01040)	Iron, water, fltrd, µg/L (01046)	Lead, water, fltrd, µg/L (01049)	Lithium, water, fltrd, µg/L (01130)	Manganese, water, fltrd, µg/L (01056)	Molybdenum, water, fltrd, µg/L (01060)	Nickel, water, fltrd, µg/L (01065)	Silver, water, fltrd, µg/L (01075)	Strontium, water, fltrd, µg/L (01080)
Jun 03...	.02	<.02	.45	.84	<1.0	17,900	<.06	2.8	230	.2	2.4	<.008	91.3

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 5 of 11

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Date	Thallium, water, fltrd, µg/L (01057)	Vanadium, water, fltrd, µg/L (01085)	Zinc, water, fltrd, µg/L (01090)	Antimony, water, fltrd, µg/L (01095)	Arsenic, water, fltrd, µg/L (01000)	Boron, water, fltrd, µg/L (01020)	Selenium, water, fltrd, µg/L (01145)	1-Naphthol, water, fltrd, 0.7µ GF (49295)	2,6-Diethyl-aniline, water, fltrd, 0.7µ GF (82660)	2Chloro-2',6'-diethyl acet-anilide, wat flt, µg/L (61618)	CIAT, water, fltrd, µg/L (04040)	2-Ethyl-6-methyl-aniline, wat flt, µg/L (61620)	3,4-Di-chloro-aniline, water, fltrd, µg/L (61625)
Jun 03...	<.04	.39	2.2	<.04	19.6	5	E.05	<.04	<.006	<.010	<.014	<.010	<.004

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 6 of 11

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Date	3,5-Di-chloro-aniline, water, fltrd, µg/L (61627)	4-Chloro-2-methyl-phenol, wat flt, µg/L (61633)	Aceto-chlor, water, fltrd, µg/L (49260)	Ala-chlor, water, fltrd, µg/L (46342)	alpha-Endo-sulfan, water, fltrd, µg/L (34362)	Atra-zine, water, fltrd, µg/L (39632)	Azin-phos-methyl oxon, water, fltrd, µg/L (61635)	Azin-phos-methyl, water, fltrd, 0.7µ GF (82686)	Ben-flur-alin, water, fltrd, 0.7µ GF (82673)	Carbaryl, water, fltrd, 0.7µ GF (82680)	Carbo-furan, water, fltrd, 0.7µ GF (82674)	Chlor-pyrifos oxon, water, fltrd, µg/L (61636)	Chlor-pyrifos water, fltrd, µg/L (38933)
Jun 03...	<.004	<.005	<.010	<.008	<.006	<.007	<.04	<.120	<.014	<.200	<.060	<.05	<.010

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 7 of 11

[Remark codes: <, less than; E, estimated; U, analyzed for but not detected.]

Date	cis-Permethrin water fltrd 0.7µ GF (82687)	cis-Propiconazole water, fltrd (79846)	Cyanazine, water, fltrd (04041)	Cyfluthrin, water, fltrd (61585)	Cypermethrin, water, fltrd (61586)	DCPA, water, fltrd 0.7µ GF (82682)	Desulfinyl-fipronil amide, wat flt (62169)	Desulfinyl-fipronil, water, fltrd (62170)	Diazinon, water, fltrd (39572)	Diazoxon, water, fltrd (61638)	Di-chlorvos, water, fltrd (38775)	Dicrotophos, water, fltrd (38454)	Dieldrin, water, fltrd (39381)
Jun 03...	<.014	<.006	<.040	<.016	<.020	<.006	<.029	<.012	<.005	<.01	<.02	<.08	<.009

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 8 of 11

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Date	Dimethoate, water, fltrd 0.7µ GF (82662)	Disulfoton sulfone water, fltrd (61640)	Disulfoton, water, fltrd 0.7µ GF (82677)	Endosulfan sulfate, water, fltrd (61590)	EPTC, water, fltrd 0.7µ GF (82668)	Ethion monoxon water, fltrd (61644)	Ethion, water, fltrd (82346)	Ethoprop, water, fltrd 0.7µ GF (82672)	Fenamiphos sulfone water, fltrd (61645)	Fenamiphos sulf-oxide, water, fltrd (61646)	Fenamiphos, water, fltrd (61591)	Fipronil sulfide, water, fltrd (62167)	Fipronil sulfone, water, fltrd (62168)
Jun 03...	<.006	<.01	<.04	<.022	<.002	<.02	<.012	<.016	<.053	<.08	<.03	<.013	<.024

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

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Date	Fipronil, water, fltrd (62166)	Fenofos water, fltrd (04095)	Hexazinone, water, fltrd (04025)	Iprodione, water, fltrd (61593)	Isofenphos, water, fltrd (61594)	lambda-Cyhalothrin, water, fltrd (61595)	Malaoxon, water, fltrd (61652)	Malathion, water, fltrd (39532)	Metaxyl, water, fltrd (61596)	Methidathion, water, fltrd (61598)	Methylparaoxon, water, fltrd (61664)	Methylparathion, water, fltrd 0.7µ GF (82667)	Metolachlor, water, fltrd (39415)
Jun 03...	<.040	<.010	<.008	<.014	<.006	<.010	<.080	<.020	<.007	<.006	<.01	<.008	<.014

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WATER-QUALITY DATA
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Date	Metri-	Moli-	Myclo-	Oxy-	Pendi-	Phorate	Phorate	Phosmet	Prome-	Prome-	Pro-	Propar-	Propy-
	buzin,	nate,	butanil	fluor-	meth-	oxon,	water,	water,	ton,	tryn,	panil,	gite,	zamide,
	water,												
	fltrd,												
	0.7μ GF												
	μg/L												
	(82630)	(82671)	(61599)	(61600)	(82683)	(61666)	(82664)	(61601)	(04037)	(04036)	(82679)	(82685)	(82676)
Jun 03...	<.016	<.002	<.010	<.006	<.012	<.03	<.020	<.200	<.01	<.006	<.014	<.02	<.004

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 11 of 11

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Date	Sima-	Tebu-	Tebu-	Teflu-	Ter-	Terbu-	Thio-	trans-	Tribu-	Tri-	Uranium
	zine,	con-	thiuron	thrin,	bufos	fos,	bencarb	Propi-	phos,	flur-	natural
	water,	azole,	water,	water,	sulfone	water,	water,	cona-	water,	alin,	water,
	fltrd,	water,	fltrd,	fltrd,	water,	fltrd,	fltrd,	zole,	fltrd,	water,	fltrd,
	0.7μ GF	fltrd,	fltrd,	0.7μ GF	fltrd,						
	μg/L										
	(04035)	(62852)	(82670)	(61606)	(61674)	(82675)	(82681)	(79847)	(61610)	(82661)	(22703)
Jun 03...	<.010	<.02	<.02	<.010	<.04	<.02	<.016	<.02	<.035	<.012	.01