



Water-Data Report 2009

353027077340102 Local number GR-115, L20, NEAR LIZZIE, NC

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

LOCATION.--Lat 35°30'28", long 77°34'00" referenced to North American Datum of 1983, Greene County, NC, Hydrologic Unit 03020203, .75 mi south of Secondary Road 1335, on Secondary Road 1342, 3 mi east Lizzie.

GROUNDWATER RECORDS

WELL CHARACTERISTICS.--Drilled observation well, depth 22.7 ft, diameter 2 in., screened interval from 12.07 to 15.07 ft.

DATUM.--Land-surface datum is 79.27 ft above NGVD of 1929. Measuring point: Top of protective casing, 3.77 ft above land-surface datum, April 4, 2007 to present.

PERIOD OF RECORD.--June 1999 to August 2002, March 2005 to April 2009. Continuous record March 2005 to November 2007.

GAGE.--Measured periodically with electric and steel tape.

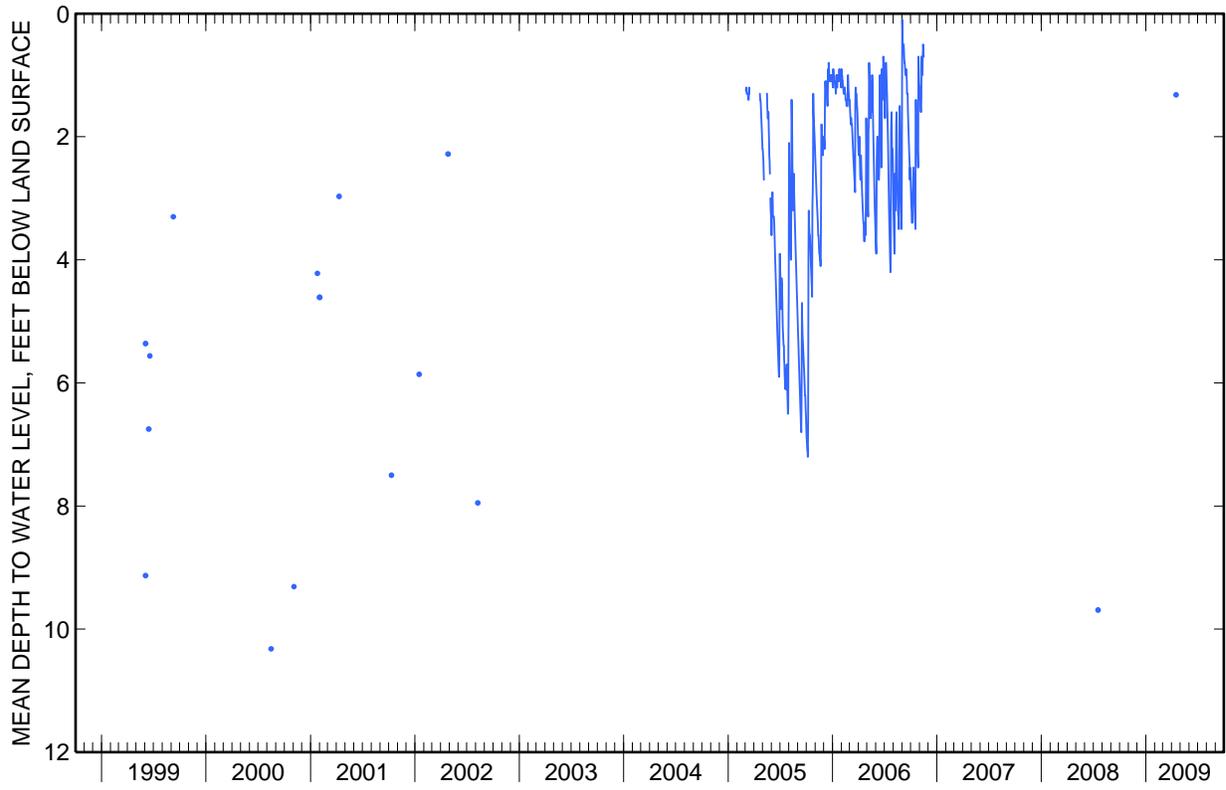
REMARKS.--Well is measured as part of the National Water Quality Assessment (NAWQA) program.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 0.1 ft above land-surface datum, September 1, 2006; lowest water level measured, 10.32 ft below land-surface datum, August 15, 2000.

WATER LEVELS IN FEET BELOW LAND-SURFACE DATUM

Date	Water level
Apr 16, 2009	1.32

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WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1999, 2001, 2005, 2007, 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; M, presence verified but not quantified; 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)
Apr 16...	1000	Ground water	Regular	746	7.0	1.32	.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, 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, ftrd, mg/L (00915)	Magnesium, water, ftrd, mg/L (00925)	Potassium, water, ftrd, mg/L (00935)	Sodium, water, ftrd, mg/L (00930)	Bromide, water, ftrd, mg/L (71870)	Chloride, water, ftrd, mg/L (00940)
Apr 16...	4.5	43	14.2	3.6	5.09	33	7	2.19	.389	.40	3.74	.07	8.37

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

Part 3 of 11

[Remark codes: <, less than; M, presence verified but not quantified; U, analyzed for but not detected.]

Date	Fluoride, water, ftrd, mg/L (00950)	Hydrogen sulfide, water, unfltrd mg/L (71875)	Silica, water, ftrd, mg/L as SiO2 (00955)	Sulfate, water, ftrd, mg/L (00945)	Ammonia, water, ftrd, mg/L as N (00608)	Nitrate + nitrite, water, ftrd, mg/L as N (00631)	Nitrite, water, ftrd, mg/L as N (00613)	Orthophosphate, water, ftrd, mg/L as P (00671)	Total nitrogen, wat flt by anal mg/L (62854)	Aluminum, water, ftrd, μg/L (01106)	Barium, water, ftrd, μg/L (01005)	Beryllium, water, ftrd, μg/L (01010)	Cadmium, water, ftrd, μg/L (01025)
Apr 16...	.12	U	13.7	1.09	.022	<.04	<.002	.136	<.10	123	22	.18	.02

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 4 of 11

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Date	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)	Mangan- ese, water, fltrd, µg/L (01056)	Molyb- denum, water, fltrd, µg/L (01060)	Nickel, water, fltrd, µg/L (01065)	Silver, water, fltrd, µg/L (01075)	Stront- ium, water, fltrd, µg/L (01080)	Thall- ium, water, fltrd, µg/L (01057)	Vana- dium, water, fltrd, µg/L (01085)
Apr 16...	.24	.77	<1.0	997	.10	1.5	6.1	M	1.6	<.008	17.5	<.04	.31

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 5 of 11

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Date	Zinc, water, fltrd, µg/L (01090)	Anti- mony, water, fltrd, µg/L (01095)	Arsenic water, fltrd, µg/L (01000)	Boron, water, fltrd, µg/L (01020)	Selen- ium, water, fltrd, µg/L (01145)	1-Naph- thol, water, fltrd 0.7µ GF µg/L (49295)	2,6-Di- ethyl- aniline water, fltrd 0.7µ GF µg/L (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)	3,5-Di- chloro- aniline water, fltrd, µg/L (61627)	4- Chloro- 2- methyl- phenol, wat flt µg/L (61633)
Apr 16...	4.3	<.04	.10	6	<.06	<.04	<.006	<.010	<.014	<.010	<.004	<.004	<.005

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 6 of 11

[Remark codes: <, less than; M, presence verified but not quantified; U, analyzed for but not detected.]

Date	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 µg/L (82686)	Ben- flur- alin, water, fltrd 0.7µ GF µg/L (82673)	Car- baryl, water, fltrd 0.7µ GF µg/L (82680)	Carbo- furan, water, fltrd 0.7µ GF µg/L (82674)	Chlor- pyrifos oxon, water, fltrd, µg/L (61636)	Chlor- pyrifos water, fltrd, µg/L (38933)	cis- Per- methrin water fltrd 0.7µ GF µg/L (82687)	cis- Propi- cona- zole, water, fltrd, µg/L (79846)
Apr 16...	<.010	<.008	<.006	<.007	<.04	<.120	<.014	<.200	<.060	<.05	<.010	<.014	<.006

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 7 of 11

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Date	Cyana- zine, water, fltrd, µg/L (04041)	Cyflu- thrin, water, fltrd, µg/L (61585)	Cyper- methrin water, fltrd, µg/L (61586)	DCPA, water, fltrd, 0.7µ GF µg/L (82682)	Desulf- inyl- fipro- nil amide, wat flt µg/L (62169)	Desulf- inyl- fipro- nil, water, fltrd, µg/L (62170)	Diazi- non, water, fltrd, µg/L (39572)	Di- chlor- vos, water, fltrd, µg/L (38775)	Dicro- tophos, water, fltrd, µg/L (38454)	Diel- drin, water, fltrd, µg/L (39381)	Dimeth- oate, water, fltrd, 0.7µ GF µg/L (82662)	Disulf- oton sulfone water, fltrd, µg/L (61640)	Disul- foton, water, fltrd, 0.7µ GF µg/L (82677)
Apr 16...	<.040	<.016	<.020	<.006	<.029	<.012	<.005	<.02	<.08	<.009	<.006	<.01	<.04

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

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Date	Endo- sulfan water, fltrd, µg/L (61590)	EPTC, water, fltrd, 0.7µ GF µg/L (82668)	Ethion monoxon water, fltrd, µg/L (61644)	Ethion, water, fltrd, µg/L (82346)	Etho- prop, water, fltrd, 0.7µ GF µg/L (82672)	Fenami- phos sulfone water, fltrd, µg/L (61645)	Fenami- phos oxide, water, fltrd, µg/L (61646)	Fenami- phos, water, fltrd, µg/L (61591)	Fipro- nil sulfide water, fltrd, µg/L (62167)	Fipro- nil sulfone water, fltrd, µg/L (62168)	Fipro- nil, water, fltrd, µg/L (62166)	Fonofos water, fltrd, µg/L (04095)	Hexa- zinone, water, fltrd, µg/L (04025)
Apr 16...	<.022	<.002	<.02	<.012	<.016	<.053	<.08	<.03	<.013	<.024	<.040	<.010	<.008

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

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Date	Ipro- dione, water, fltrd, µg/L (61593)	Isofen- phos, water, fltrd, µg/L (61594)	lambda- Cyhalo- thrin, water, fltrd, µg/L (61595)	Mala- oxon, water, fltrd, µg/L (61652)	Mala- thion, water, fltrd, µg/L (39532)	Meta- laxyl, water, fltrd, µg/L (61596)	Methid- athion, water, fltrd, µg/L (61598)	Methyl para- oxon, water, fltrd, µg/L (61664)	Methyl para- thion, water, fltrd, 0.7µ GF µg/L (82667)	Metola- chlor, water, fltrd, µg/L (39415)	Metri- buzin, water, fltrd, µg/L (82630)	Moli- nate, water, fltrd, 0.7µ GF µg/L (82671)	Myclo- butanil water, fltrd, µg/L (61599)
Apr 16...	<.014	<.006	<.010	<.080	<.020	<.007	<.006	<.01	<.008	<.014	<.016	<.002	<.010

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WATER-QUALITY DATA
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Part 10 of 11

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Date	Oxy-fluor-fen, water, fltrd, µg/L (61600)	Pendi-meth-alin, water, fltrd, 0.7µ GF µg/L (82683)	Phorate, water, fltrd, µg/L (61666)	Phorate, water, fltrd, 0.7µ GF µg/L (82664)	Phosmet, water, fltrd, µg/L (61668)	Phosmet, water, fltrd, µg/L (61601)	Prome-ton, water, fltrd, µg/L (04037)	Prome-tryn, water, fltrd, µg/L (04036)	Pro-panil, water, fltrd, 0.7µ GF µg/L (82679)	Propar-gite, water, fltrd, 0.7µ GF µg/L (82685)	Propy-zamide, water, fltrd, 0.7µ GF µg/L (82676)	Sima-zine, water, fltrd, µg/L (04035)	Tebu-thiuron, water, fltrd, 0.7µ GF µg/L (82670)
Apr 16...	<.006	<.012	<.03	<.020	<.05	<.200	<.01	<.006	<.014	<.02	<.004	<.010	<.02

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Part 11 of 11

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Date	Teflu-thrin, water, fltrd, µg/L (61606)	Ter-bufos, sulfone, water, fltrd, µg/L (61674)	Terbu-fos, water, fltrd, 0.7µ GF µg/L (82675)	Ter-buthyl-azine, water, fltrd, µg/L (04022)	Thio-bencarb, water, fltrd, 0.7µ GF µg/L (82681)	trans-Propi-conazole, water, fltrd, µg/L (79847)	Tribu-phos, water, fltrd, µg/L (61610)	Tri-flur-alin, water, fltrd, 0.7µ GF µg/L (82661)	Uranium, natural, water, fltrd, µg/L (22703)
Apr 16...	<.010	<.04	<.02	<.01	<.016	<.02	<.035	<.012	.03