



Water-Data Report 2010

**335631078003606 Local number BR-083 (NC-199), NCDENR SOUTHPORT RESEARCH STATION, GG32t6,
NEAR SOUTHPORT, NC (SURFICIAL)**

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

LOCATION.--Lat 33°56'31", long 78°00'35" referenced to North American Datum of 1983, Brunswick County, NC, Hydrologic Unit 03030005, 1.6 mi north of Southport, on Secondary Road 1527. Owner: NCDENR (North Carolina Department of Environment and Natural Resources).

GROUNDWATER RECORDS

WELL CHARACTERISTICS.--Drilled observation well, depth 21 ft, diameter 4 in., cased to 11 ft, screened from 11 ft to 21 ft.

DATUM.--Land-surface datum is 28.00 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of instrument shelf, 1.27 ft above land-surface datum, October 16, 1997.

PERIOD OF RECORD.--January 1970 to current year. Continuous record began October 1997.

GAGE.--Water-level recorder collecting data at 15-minute intervals. Satellite telemetry at site.

REMARKS.--Well is part of the Brunswick County groundwater monitoring program.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 0.13 ft below land-surface datum, September 16, 1999; lowest water level measured, 11.36 ft below land-surface datum, October 10, 1977.

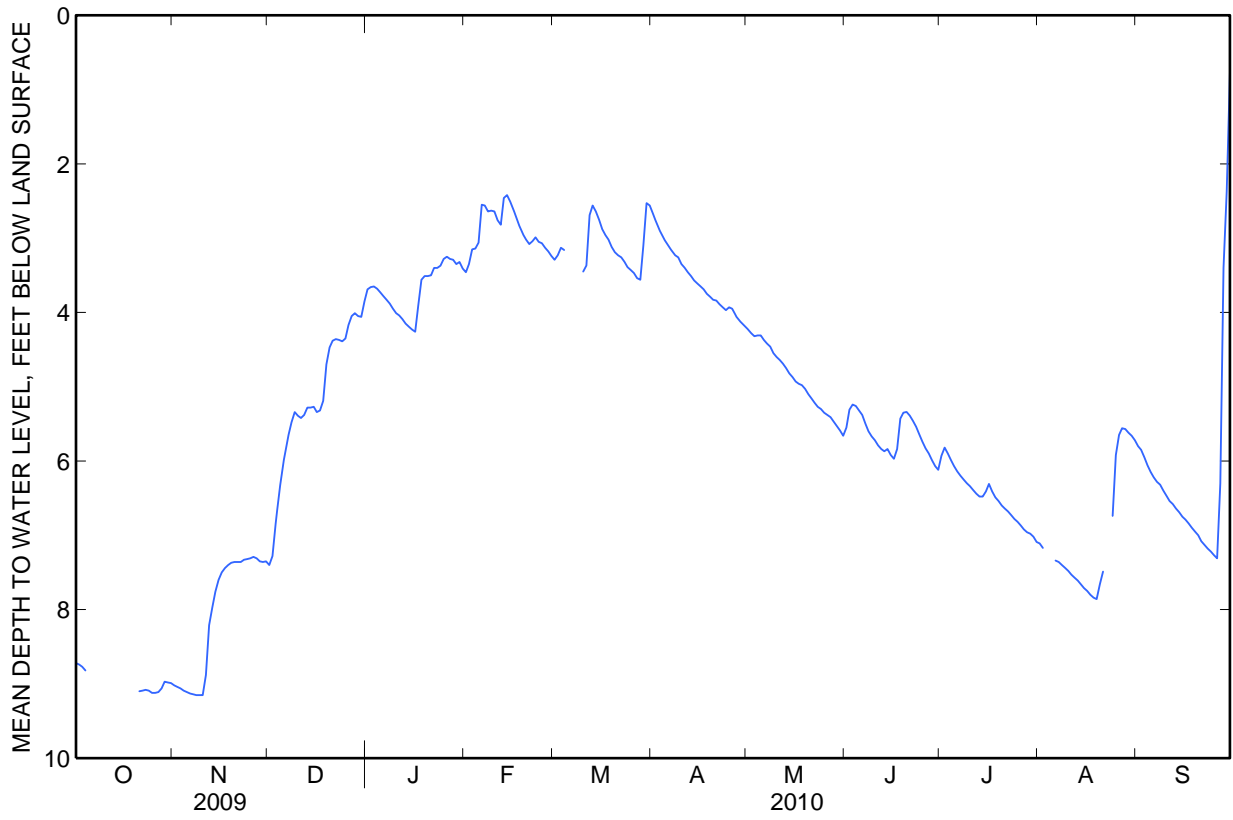
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(SURFICIAL)—Continued

**DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES**

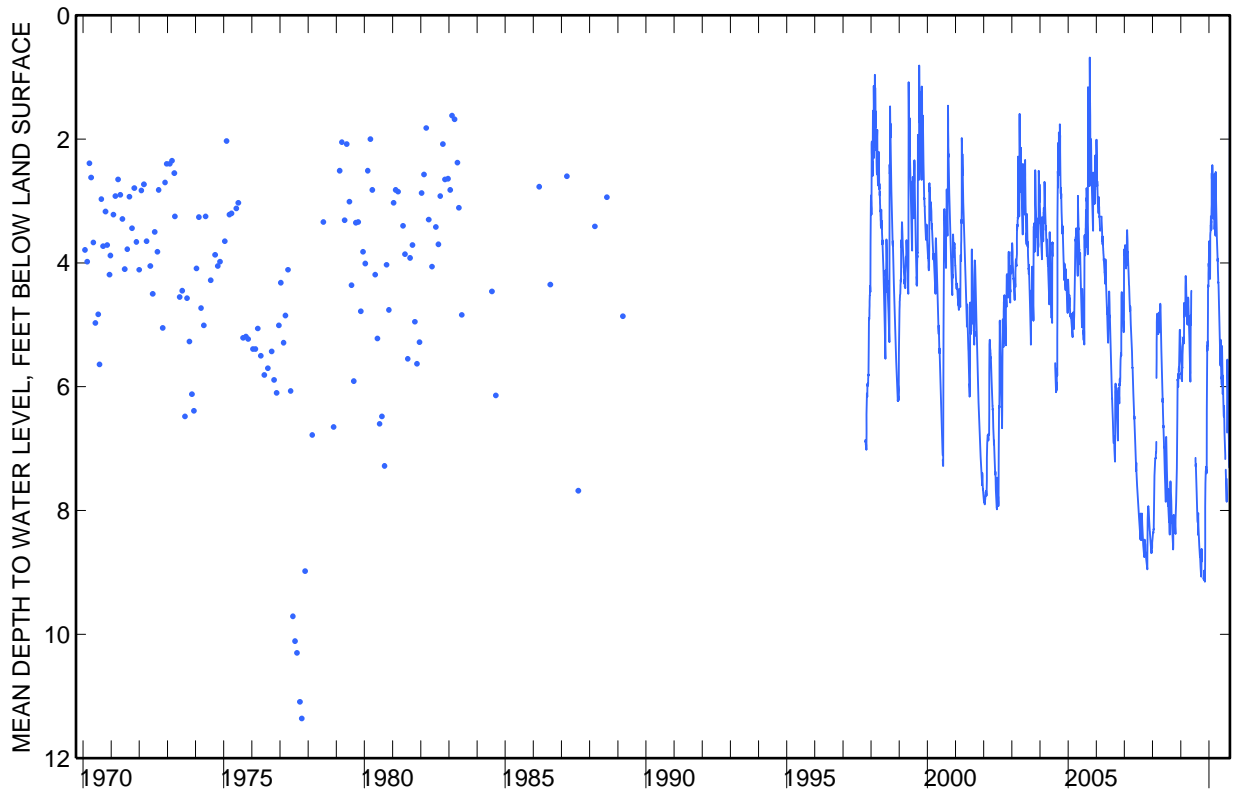
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	8.72	9.02	7.40	3.69	3.46	3.29	2.67	4.23	5.55	5.93	7.11	5.80
2	8.74	9.04	7.28	3.66	3.35	3.23	2.78	4.28	5.31	5.82	7.17	5.85
3	8.77	9.06	6.84	3.65	3.15	3.13	2.88	4.32	5.24	5.90	---	5.95
4	8.82	9.09	6.47	3.68	3.14	3.16	2.97	4.31	5.26	5.99	---	6.06
5	---	9.11	6.15	3.73	3.06	---	3.05	4.31	5.32	6.07	---	6.15
6	---	9.13	5.90	3.78	2.55	---	3.11	4.37	5.38	6.14	7.34	6.22
7	---	9.14	5.66	3.83	2.56	---	3.17	4.42	5.50	6.20	7.36	6.28
8	---	9.15	5.48	3.88	2.64	---	3.23	4.46	5.60	6.25	7.40	6.32
9	---	9.15	5.34	3.95	2.63	---	3.26	4.55	5.67	6.30	7.44	6.40
10	---	9.15	5.39	4.01	2.64	3.45	3.35	4.60	5.72	6.34	7.48	6.47
11	---	8.88	5.42	4.04	2.76	3.37	3.40	4.64	5.79	6.39	7.53	6.54
12	---	8.21	5.38	4.09	2.82	2.69	3.46	4.69	5.84	6.44	7.57	6.58
13	---	7.97	5.28	4.15	2.46	2.56	3.51	4.75	5.87	6.48	7.61	6.64
14	---	7.76	5.28	4.19	2.42	2.64	3.57	4.82	5.84	6.48	7.66	6.69
15	---	7.60	5.27	4.23	2.51	2.75	3.61	4.87	5.92	6.41	7.71	6.75
16	---	7.50	5.34	4.26	2.62	2.88	3.65	4.93	5.97	6.31	7.75	6.79
17	---	7.44	5.32	3.91	2.73	2.96	3.69	4.96	5.84	6.41	7.80	6.84
18	---	7.40	5.19	3.56	2.85	3.02	3.75	4.98	5.43	6.49	7.84	6.90
19	---	7.37	4.70	3.51	2.94	3.12	3.79	5.03	5.35	6.54	7.86	6.95
20	---	7.36	4.47	3.51	3.02	3.19	3.83	5.10	5.34	6.60	7.66	7.00
21	9.10	7.36	4.38	3.50	3.08	3.23	3.84	5.16	5.39	6.64	7.49	7.08
22	9.09	7.36	4.36	3.40	3.04	3.26	3.89	5.22	5.46	6.68	---	7.13
23	9.08	7.33	4.37	3.40	2.99	3.32	3.93	5.27	5.54	6.73	---	7.18
24	9.09	7.32	4.39	3.37	3.05	3.39	3.97	5.30	5.64	6.78	6.74	7.22
25	9.12	7.31	4.35	3.28	3.07	3.43	3.93	5.35	5.74	6.82	5.92	7.27
26	9.12	7.29	4.17	3.25	3.13	3.47	3.95	5.38	5.83	6.87	5.65	7.31
27	9.11	7.31	4.05	3.28	3.18	3.54	4.03	5.41	5.90	6.92	5.56	6.30
28	9.06	7.35	4.01	3.29	3.24	3.56	4.10	5.47	5.99	6.96	5.57	3.40
29	8.97	7.36	4.05	3.35	---	3.10	4.14	5.53	6.07	6.98	5.62	2.37
30	8.98	7.35	4.06	3.32	---	2.53	4.19	5.59	6.12	7.02	5.66	0.78
31	8.99	---	3.85	3.41	---	2.56	---	5.66	---	7.09	5.72	---
Mean	8.98	8.06	5.15	3.68	2.90	3.11	3.56	4.90	5.65	6.48	7.01	6.17
Max	9.12	9.15	7.40	4.26	3.46	3.56	4.19	5.66	6.12	7.09	7.86	7.31
Min	8.72	7.29	3.85	3.25	2.42	2.53	2.67	4.23	5.24	5.82	5.56	0.78

Water Year 2010	
Mean	5.34
High	0.78
Low	9.15

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335631078003606 Local number BR-083 (NC-199), NCDENR SOUTHPORT RESEARCH STATION, GG3216, NEAR SOUTHPORT, NC (SURFICIAL)—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2000, 2010.

WATER-QUALITY DATA

WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

[ft, feet; mg/L, milligrams per liter; °C, degrees Celsius; μS/cm, microsiemens per centimeter]

Date	Sample start time	Medium name	Sample type	Depth to water level, ft below land surface (72019)	Specific conductance, water, unfiltered, μS/cm at 25 °C (00095)	Temperature, water, °C (00010)	Chloride, water, filtered, mg/L (00940)
09-01-2010	0844	Ground water	Regular	5.75	84	25.4	6.45