

Water-Data Report 2008

335631078003606 Local number BR-083 (NC-199), NCDENR Southport Research Station well 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, north of Southport, 0.45 mi northeast of Secondary Road 1526 on Secondary Road 1527. Owner: NCDENR (North Carolina Department of Environment and Natural Resources).

GROUND-WATER RECORDS

WELL CHARACTERISTICS.--Depth 21 ft. Upper casing diameter 4 in; top of first opening 11 ft, bottom of last opening 21 ft. Drilled observation well, depth 21 ft, diameter 4 in., cased to 11 ft, screened from 11 to 21 ft.

DATUM.--Land-surface datum is 28 ft above National Geodetic Vertical Datum of 1929. Measuring point: TOP OF INSTRUMENT SHELF, 1.27 ft above land-surface datum, Oct. 16, 1997, to present. Land-surface datum is 28.00 ft above NGVD 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 station.

REMARKS.--Well is part of the Brunswick County ground-water study.

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.

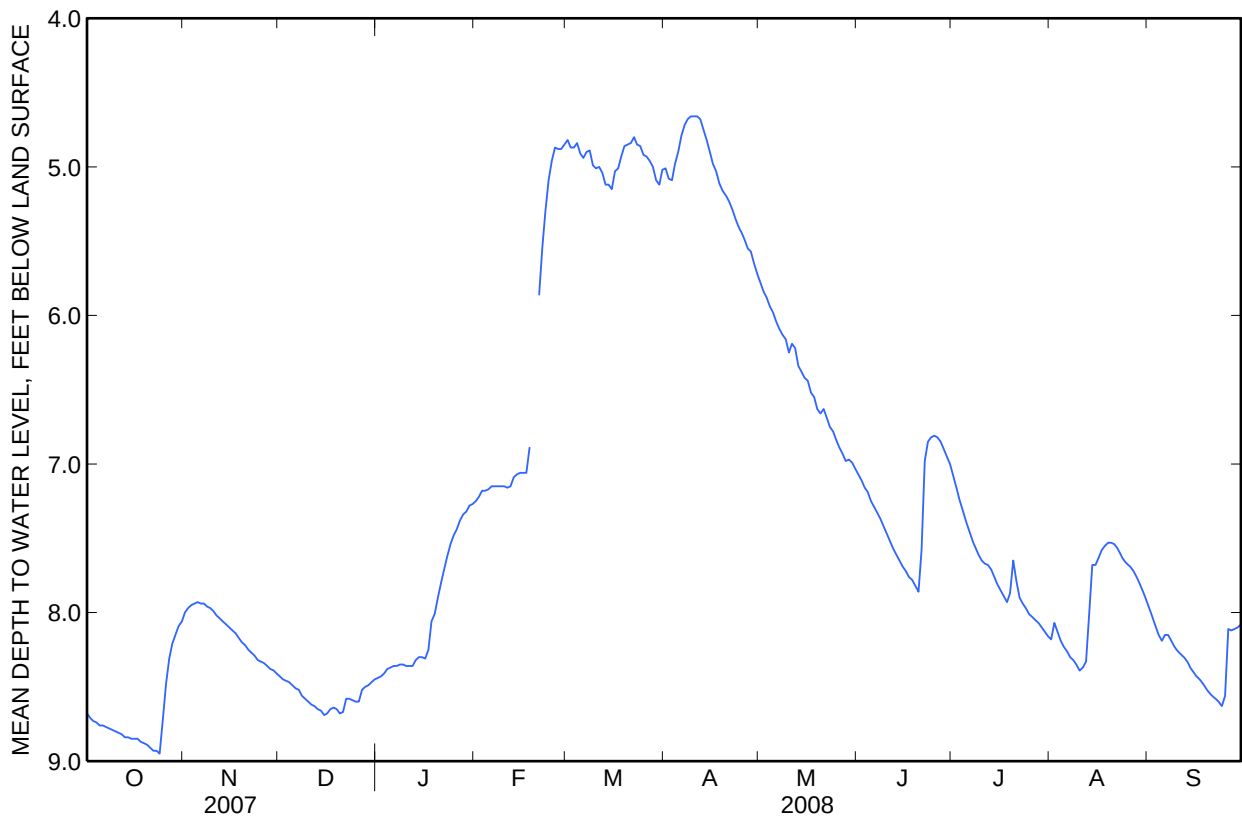
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**DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	8.68	8.00	8.43	8.44	7.25	4.82	5.01	5.78	7.07	7.08	8.18	7.97
2	8.71	7.97	8.45	8.43	7.22	4.87	5.08	5.84	7.11	7.16	8.07	8.03
3	8.73	7.95	8.46	8.41	7.18	4.87	5.09	5.88	7.16	7.24	8.13	8.09
4	8.74	7.94	8.47	8.38	7.18	4.84	4.98	5.94	7.19	7.31	8.19	8.15
5	8.76	7.93	8.49	8.37	7.17	4.91	4.90	5.98	7.25	7.38	8.23	8.19
6	8.76	7.94	8.51	8.36	7.15	4.94	4.79	6.04	7.29	7.45	8.26	8.15
7	8.77	7.94	8.52	8.36	7.15	4.90	4.72	6.09	7.33	7.51	8.30	8.15
8	8.78	7.96	8.56	8.35	7.15	4.89	4.68	6.13	7.37	7.56	8.32	8.19
9	8.79	7.97	8.58	8.35	7.15	4.99	4.66	6.16	7.42	7.61	8.35	8.23
10	8.80	7.99	8.60	8.36	7.15	5.01	4.66	6.25	7.47	7.65	8.39	8.26
11	8.81	8.02	8.62	8.36	7.16	5.00	4.66	6.19	7.52	7.67	8.37	8.28
12	8.82	8.04	8.63	8.36	7.15	5.04	4.68	6.22	7.57	7.68	8.33	8.30
13	8.84	8.06	8.65	8.32	7.09	5.12	4.75	6.34	7.61	7.71	8.02	8.33
14	8.84	8.08	8.66	8.30	7.07	5.12	4.82	6.38	7.65	7.76	7.68	8.37
15	8.85	8.10	8.69	8.30	7.06	5.15	4.90	6.42	7.69	7.81	7.68	8.40
16	8.85	8.12	8.68	8.31	7.06	5.03	4.98	6.44	7.72	7.85	7.63	8.43
17	8.85	8.14	8.65	8.25	7.06	5.01	5.03	6.52	7.76	7.89	7.58	8.45
18	8.87	8.17	8.64	8.06	6.89	4.93	5.11	6.55	7.78	7.93	7.55	8.48
19	8.88	8.20	8.65	8.01	---	4.86	5.16	6.63	7.82	7.87	7.53	8.51
20	8.89	8.22	8.68	7.90	---	4.85	5.19	6.66	7.86	7.65	7.53	8.54
21	8.91	8.25	8.67	7.80	5.86	4.84	5.23	6.63	7.58	7.79	7.54	8.56
22	8.93	8.27	8.58	7.71	5.54	4.80	5.28	6.69	6.98	7.90	7.57	8.58
23	8.93	8.29	8.58	7.62	5.30	4.85	5.34	6.75	6.85	7.94	7.61	8.60
24	8.95	8.32	8.59	7.54	5.09	4.86	5.40	6.78	6.82	7.97	7.65	8.63
25	8.72	8.33	8.60	7.48	4.96	4.92	5.44	6.84	6.81	8.01	7.67	8.56
26	8.48	8.34	8.60	7.44	4.87	4.93	5.49	6.89	6.82	8.03	7.69	8.11
27	8.31	8.36	8.52	7.38	4.88	4.96	5.55	6.93	6.85	8.05	7.72	8.12
28	8.21	8.38	8.50	7.34	4.88	5.00	5.57	6.98	6.90	8.07	7.76	8.11
29	8.15	8.39	8.49	7.32	4.85	5.09	5.65	6.97	6.95	8.10	7.80	8.10
30	8.09	8.41	8.47	7.28	---	5.12	5.72	6.99	7.00	8.13	7.86	8.08
31	8.06	---	8.45	7.27	---	5.02	---	7.03	---	8.16	7.91	---
Mean	8.70	8.14	8.57	8.01	6.46	4.95	5.08	6.45	7.31	7.74	7.91	8.30
Max	8.95	8.41	8.69	8.44	7.25	5.15	5.72	7.03	7.86	8.16	8.39	8.63
Min	8.06	7.93	8.43	7.27	4.85	4.80	4.66	5.78	6.81	7.08	7.53	7.97

Water Year 2008	
Mean	7.31
High	4.66
Low	8.95

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