



Water-Data Report 2007

340743078202002 Local number BR-106; DENR Bear Pen Research Station well EE36k5.

Northern Atlantic Coastal Plain aquifer system
Black Creek Aquifer
Brunswick County, NC

LOCATION.--Lat 34°07'43", long 78°20'20" referenced to North American Datum of 1983, Brunswick County, NC, Hydrologic Unit 03040206, 9 mi north of Supply on Federal Road, near North Carolina Forest Service airstrip. Owner: NCDENR (North Carolina Department of Environment and Natural Resources).

GROUND-WATER RECORDS

WELL CHARACTERISTICS.--Drilled observation well, depth 654 ft, diameter 2.5 in.; cased to 644 ft, screened interval from 644 to 654 ft.

DATUM.--Land-surface datum is 61.5 ft above National Geodetic Vertical Datum of 1929. Measuring point: top of casing, 3.56 ft above land-surface datum, Oct. 18, 1999, to present.

PERIOD OF RECORD.--January 1974 to January 2008 (discontinued). Continuous record October 1999 to December 2007.

GAGE.--Water-level recorder collecting data at 60-minute intervals. Satellite telemetry at station.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 15.03 ft below land-surface datum, July 9, 1975; lowest water level measured, 30.98 ft below land-surface datum, January 8, 2008.

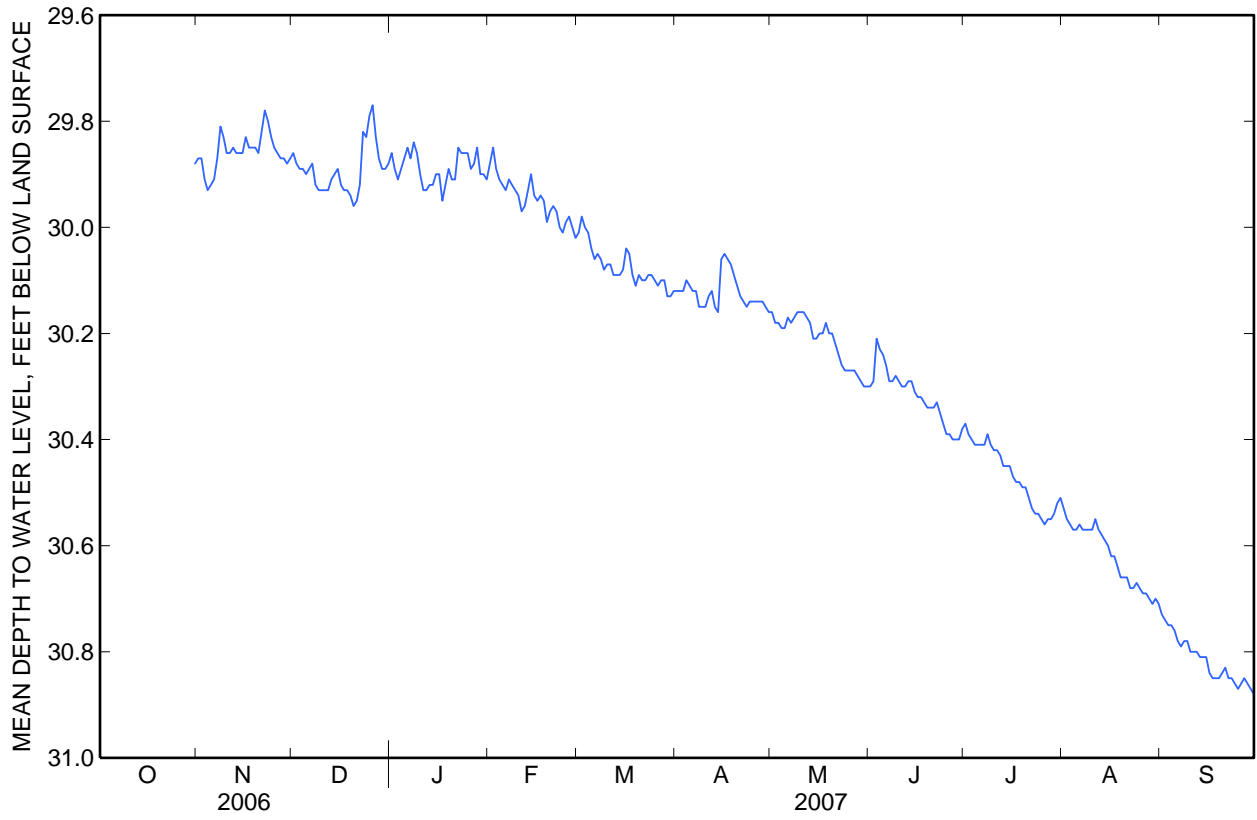
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DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	29.87	29.86	29.86	29.88	30.01	30.12	30.16	30.30	30.37	30.53	30.73
2	---	29.87	29.88	29.89	29.85	29.98	30.12	30.18	30.29	30.39	30.55	30.74
3	---	29.91	29.89	29.91	29.89	30.00	30.12	30.18	30.21	30.40	30.56	30.75
4	---	29.93	29.89	29.89	29.91	30.01	30.10	30.19	30.23	30.41	30.57	30.75
5	---	29.92	29.90	29.87	29.92	30.04	30.11	30.19	30.24	30.41	30.57	30.76
6	---	29.91	29.89	29.85	29.93	30.06	30.12	30.17	30.26	30.41	30.56	30.78
7	---	29.87	29.88	29.87	29.91	30.05	30.12	30.18	30.29	30.41	30.57	30.79
8	---	29.81	29.92	29.84	29.92	30.06	30.15	30.17	30.29	30.39	30.57	30.78
9	---	29.83	29.93	29.86	29.93	30.08	30.15	30.16	30.28	30.41	30.57	30.78
10	---	29.86	29.93	29.90	29.94	30.07	30.15	30.16	30.29	30.42	30.57	30.80
11	---	29.86	29.93	29.93	29.97	30.07	30.13	30.16	30.30	30.42	30.55	30.80
12	---	29.85	29.93	29.93	29.96	30.09	30.12	30.17	30.30	30.43	30.57	30.80
13	---	29.86	29.91	29.92	29.93	30.09	30.15	30.18	30.29	30.45	30.58	30.81
14	---	29.86	29.90	29.92	29.90	30.09	30.16	30.21	30.29	30.45	30.59	30.81
15	---	29.86	29.89	29.90	29.94	30.08	30.06	30.21	30.31	30.45	30.60	30.81
16	---	29.83	29.92	29.90	29.95	30.04	30.05	30.20	30.32	30.47	30.62	30.84
17	---	29.85	29.93	29.95	29.94	30.05	30.06	30.20	30.32	30.48	30.62	30.85
18	---	29.85	29.93	29.92	29.95	30.09	30.07	30.18	30.33	30.48	30.64	30.85
19	---	29.85	29.94	29.89	29.99	30.11	30.09	30.20	30.34	30.49	30.66	30.85
20	---	29.86	29.96	29.91	29.97	30.09	30.11	30.20	30.34	30.49	30.66	30.84
21	---	29.82	29.95	29.91	29.96	30.10	30.13	30.22	30.34	30.51	30.66	30.83
22	---	29.78	29.92	29.85	29.97	30.10	30.14	30.24	30.33	30.53	30.68	30.85
23	---	29.80	29.82	29.86	30.00	30.09	30.15	30.26	30.35	30.54	30.68	30.85
24	---	29.83	29.83	29.86	30.01	30.09	30.14	30.27	30.37	30.54	30.67	30.86
25	---	29.85	29.79	29.86	29.99	30.10	30.14	30.27	30.39	30.55	30.68	30.87
26	---	29.86	29.77	29.89	29.98	30.11	30.14	30.27	30.39	30.56	30.69	30.86
27	---	29.87	29.83	29.88	30.00	30.10	30.14	30.27	30.40	30.55	30.69	30.85
28	---	29.87	29.87	29.85	30.02	30.10	30.14	30.28	30.40	30.55	30.70	30.86
29	---	29.88	29.89	29.90	---	30.13	30.15	30.29	30.40	30.54	30.71	30.87
30	---	29.87	29.89	29.90	---	30.13	30.16	30.30	30.38	30.52	30.70	30.88
31	29.88	---	29.88	29.91	---	30.12	---	30.30	---	30.51	30.71	---
Mean	29.88	29.86	29.89	29.89	29.95	30.08	30.12	30.21	30.32	30.47	30.62	30.82
Max	29.88	29.93	29.96	29.95	30.02	30.13	30.16	30.30	30.40	30.56	30.71	30.88
Min	29.88	29.78	29.77	29.84	29.85	29.98	30.05	30.16	30.21	30.37	30.53	30.73

Water Year 2007	
Mean	30.20
High	29.77
Low	30.88

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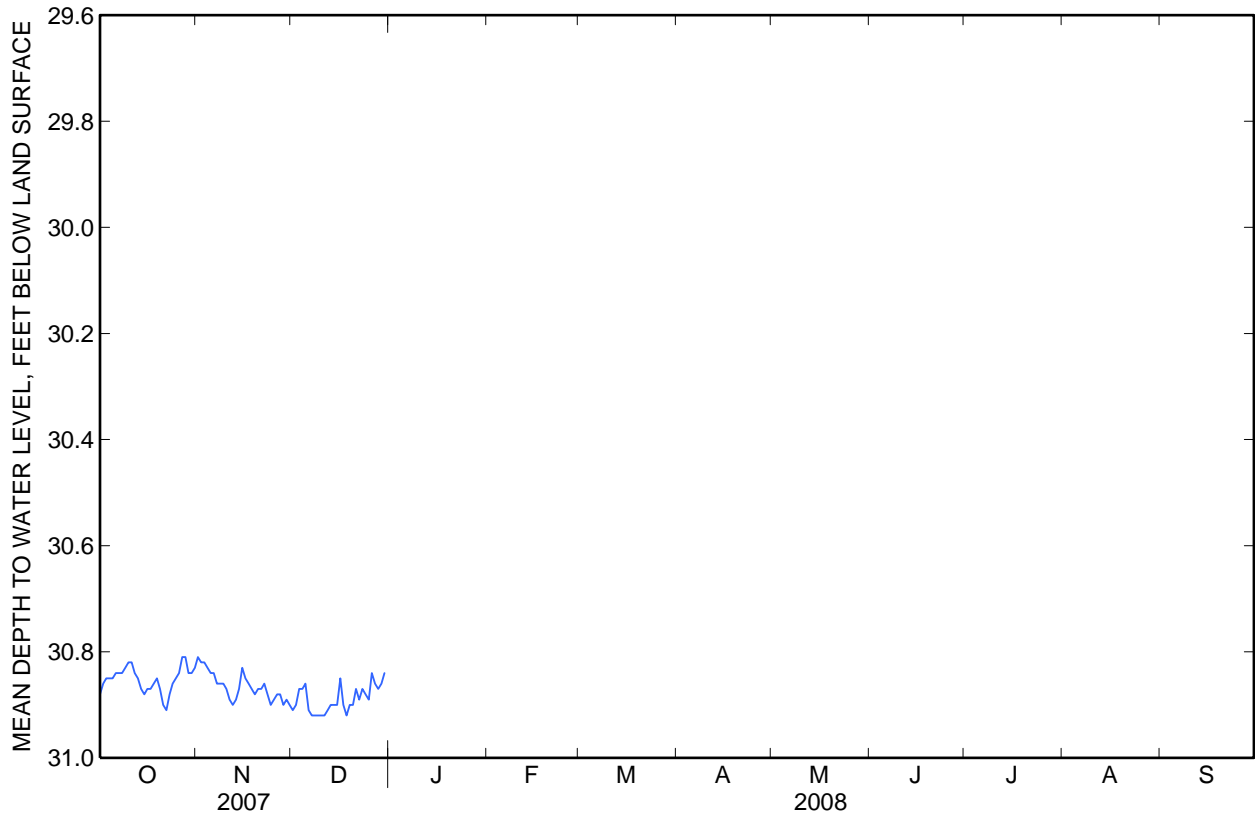


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DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	30.88	30.81	30.91	---	---	---	---	---	---	---	---	---
2	30.86	30.82	30.90	---	---	---	---	---	---	---	---	---
3	30.85	30.82	30.87	---	---	---	---	---	---	---	---	---
4	30.85	30.83	30.87	---	---	---	---	---	---	---	---	---
5	30.85	30.84	30.86	---	---	---	---	---	---	---	---	---
6	30.84	30.84	30.91	---	---	---	---	---	---	---	---	---
7	30.84	30.86	30.92	---	---	---	---	---	---	---	---	---
8	30.84	30.86	30.92	---	---	---	---	---	---	---	---	---
9	30.83	30.86	30.92	---	---	---	---	---	---	---	---	---
10	30.82	30.87	30.92	---	---	---	---	---	---	---	---	---
11	30.82	30.89	30.92	---	---	---	---	---	---	---	---	---
12	30.84	30.90	30.91	---	---	---	---	---	---	---	---	---
13	30.85	30.89	30.90	---	---	---	---	---	---	---	---	---
14	30.87	30.87	30.90	---	---	---	---	---	---	---	---	---
15	30.88	30.83	30.90	---	---	---	---	---	---	---	---	---
16	30.87	30.85	30.85	---	---	---	---	---	---	---	---	---
17	30.87	30.86	30.90	---	---	---	---	---	---	---	---	---
18	30.86	30.87	30.92	---	---	---	---	---	---	---	---	---
19	30.85	30.88	30.90	---	---	---	---	---	---	---	---	---
20	30.87	30.87	30.90	---	---	---	---	---	---	---	---	---
21	30.90	30.87	30.87	---	---	---	---	---	---	---	---	---
22	30.91	30.86	30.89	---	---	---	---	---	---	---	---	---
23	30.88	30.88	30.87	---	---	---	---	---	---	---	---	---
24	30.86	30.90	30.88	---	---	---	---	---	---	---	---	---
25	30.85	30.89	30.89	---	---	---	---	---	---	---	---	---
26	30.84	30.88	30.84	---	---	---	---	---	---	---	---	---
27	30.81	30.88	30.86	---	---	---	---	---	---	---	---	---
28	30.81	30.90	30.87	---	---	---	---	---	---	---	---	---
29	30.84	30.89	30.86	---	---	---	---	---	---	---	---	---
30	30.84	30.90	30.84	---	---	---	---	---	---	---	---	---
31	30.83	---	---	---	---	---	---	---	---	---	---	---
Mean	30.85	30.87	---	---	---	---	---	---	---	---	---	---
Max	30.91	30.90	---	---	---	---	---	---	---	---	---	---
Min	30.81	30.81	---	---	---	---	---	---	---	---	---	---

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WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

Date	Water level	Date	Water level
Oct 1, 2007	30.89	Nov 15, 2007	30.83
Nov 14	30.87	Jan 8, 2008	30.98