

GROUND-WATER LEVELS

WASHINGTON COUNTY

354351076260502. Local number, NC-157; DENR Lake Phelps Research Station well L13i2; County number, WS-099.

LOCATION.--Lat 35°43'51", long 76°26'05", Hydrologic Unit 03010205, on south shore of Lake Phelps, south of Secondary Road 1126 on Secondary Road 1183. Owner: DENR (North Carolina Department of Environment and Natural Resources).

AQUIFER.--Yorktown aquifer of Pliocene and Miocene age.

WELL CHARACTERISTICS.--Drilled observation well, depth 120 ft, diameter 4 in., screened interval from 110 to 120 ft; measured depth 120.2 ft, October 1986.

INSTRUMENTATION.--Water-level recorder collecting data at 60-minute intervals.

DATUM.--Land-surface datum is 16.35 ft above NGVD of 1929 (levels by DENR). Measuring point: Top of instrument shelf, 2.84 ft above land-surface datum; revised from 3.20 ft above land-surface datum, October 1987.

REMARKS.--Well is part of areal-effects network.

PERIOD OF RECORD.--October 1980 to current year. Continuous record November 1986 to November 1990, February 2000 to current year. Records from October 1977 to September 1980 are unpublished and available in the files of the Groundwater Section, DENR. Records from October 1980 to July 1986 are from the files of the Groundwater Section, DENR.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.89 ft below land-surface datum, May 10, 1993; lowest water level recorded, 9.52 ft below land-surface datum, Dec. 15, 16, 2001.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.31	8.46	9.41	8.99	7.40	7.13	6.57	6.72	7.18	7.77	7.96	8.04
2	8.40	8.45	9.43	8.97	7.42	7.08	6.61	6.71	7.18	7.78	7.98	7.99
3	8.47	8.45	9.45	8.75	7.38	6.88	6.56	6.77	7.26	7.78	8.00	7.96
4	8.52	8.45	9.47	8.75	7.29	6.90	6.58	6.83	7.32	7.81	8.02	7.93
5	8.55	8.45	9.47	8.75	7.37	6.98	6.58	6.80	7.35	7.82	8.00	7.90
6	8.54	8.45	9.44	8.59	7.37	6.98	6.58	6.83	7.35	7.83	7.97	7.90
7	8.58	8.44	9.42	8.51	7.21	6.93	6.63	6.81	7.35	7.89	7.98	7.91
8	8.67	8.44	9.41	8.55	7.22	6.93	6.62	6.81	7.41	7.94	8.03	7.88
9	8.73	8.48	9.43	8.50	7.26	6.91	6.61	6.83	7.43	7.95	8.07	7.81
10	8.73	8.66	9.48	8.44	7.21	6.85	6.60	6.87	7.45	7.94	8.09	7.67
11	8.72	8.79	9.44	8.39	7.11	6.91	6.61	6.92	7.47	7.90	8.10	7.64
12	8.72	8.96	9.47	8.37	7.15	6.85	6.60	6.91	7.48	7.94	8.11	7.71
13	8.74	9.05	9.44	8.26	7.14	6.71	6.58	6.86	7.48	7.96	8.15	7.74
14	8.74	9.07	9.42	8.28	7.17	6.73	6.57	6.84	7.48	7.97	8.28	7.74
15	8.77	9.10	9.46	8.18	7.13	6.74	6.57	6.95	7.46	7.99	8.48	7.72
16	8.79	9.14	9.51	8.20	7.05	6.71	6.59	7.00	7.51	8.01	8.61	7.65
17	8.82	9.22	9.44	8.13	7.03	6.73	6.59	6.98	7.55	8.05	8.60	7.57
18	8.90	9.28	9.35	8.10	7.09	6.70	6.58	6.94	7.61	8.08	8.47	7.57
19	8.91	9.28	9.43	8.02	7.11	6.72	6.57	6.99	7.66	8.10	8.40	7.56
20	8.92	9.27	9.33	7.95	7.07	6.67	6.56	7.02	7.68	8.10	8.39	7.55
21	8.96	9.35	9.22	7.89	7.00	6.63	6.58	7.07	7.70	8.10	8.40	7.54
22	8.95	9.39	9.15	7.91	7.01	6.66	6.58	7.09	7.70	8.14	8.41	7.50
23	8.93	9.42	9.02	7.81	7.02	6.70	6.66	7.09	7.66	8.16	8.38	7.46
24	8.78	9.40	8.87	7.68	7.04	6.68	6.71	7.08	7.65	8.17	8.37	7.49
25	8.64	9.39	8.86	7.66	7.06	6.68	6.67	7.11	7.66	8.12	8.36	7.49
26	8.59	9.38	8.77	7.66	7.00	6.67	6.71	7.15	7.68	8.08	8.35	7.44
27	8.55	9.39	8.76	7.61	6.96	6.63	6.73	7.17	7.70	8.01	8.29	7.41
28	8.56	9.41	8.73	7.55	7.06	6.68	6.66	7.19	7.69	8.00	8.24	7.42
29	8.56	9.43	8.70	7.50	---	6.69	6.65	7.19	7.72	7.99	8.17	7.46
30	8.50	9.41	8.85	7.48	---	6.68	6.73	7.18	7.75	7.99	8.14	7.48
31	8.48	---	9.00	7.47	---	6.65	---	7.17	---	7.98	8.10	---

WTR YR 2002 MEAN 7.84 HIGH 6.56 LOW 9.51

WASHINGTON COUNTY--Continued

354351076260502 Local number, NC-157; DENR Lake Phelps Research Station well L13i2; County number, WS-099

