

GROUND-WATER LEVELS

WAKE COUNTY

354356078403501. County number, WK-277; DENR Lake Wheeler Research Station MW-1S (Regolith well).

LOCATION.--Lat 35°43'55.6", long 78°40'34.6", Hydrologic Unit 03020201, .6 mi south of Tryon Road, .2 mi east of Lake Wheeler Road on NCSU Research Farm. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

WATER-LEVEL RECORDS

AQUIFER.--Regolith (saprolitic Raleigh Gneiss).

WELL CHARACTERISTICS.--Drilled observation well, depth 20 ft, diameter 4 in., cased to 5 ft, screened interval from 5 to 20 ft, sand filter packed from 5 to 20 ft.

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

DATUM.--Land-surface datum is 334.25 ft above NGVD of 1929. Measuring point: Top of instrument shelter floor, 2.10 ft above land-surface datum.

REMARKS.--Well is part of Piedmont/Mountains groundwater project.

PERIOD OF RECORD.--July 2001 to current year. Continuous record began December 2001. Periodic water level measurements made by DENR, July 2001 to December 2001.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, -0.38 ft below land-surface datum, July 2, 2003; lowest water level recorded 2.71 ft below land-surface datum, Aug. 13, 2002.

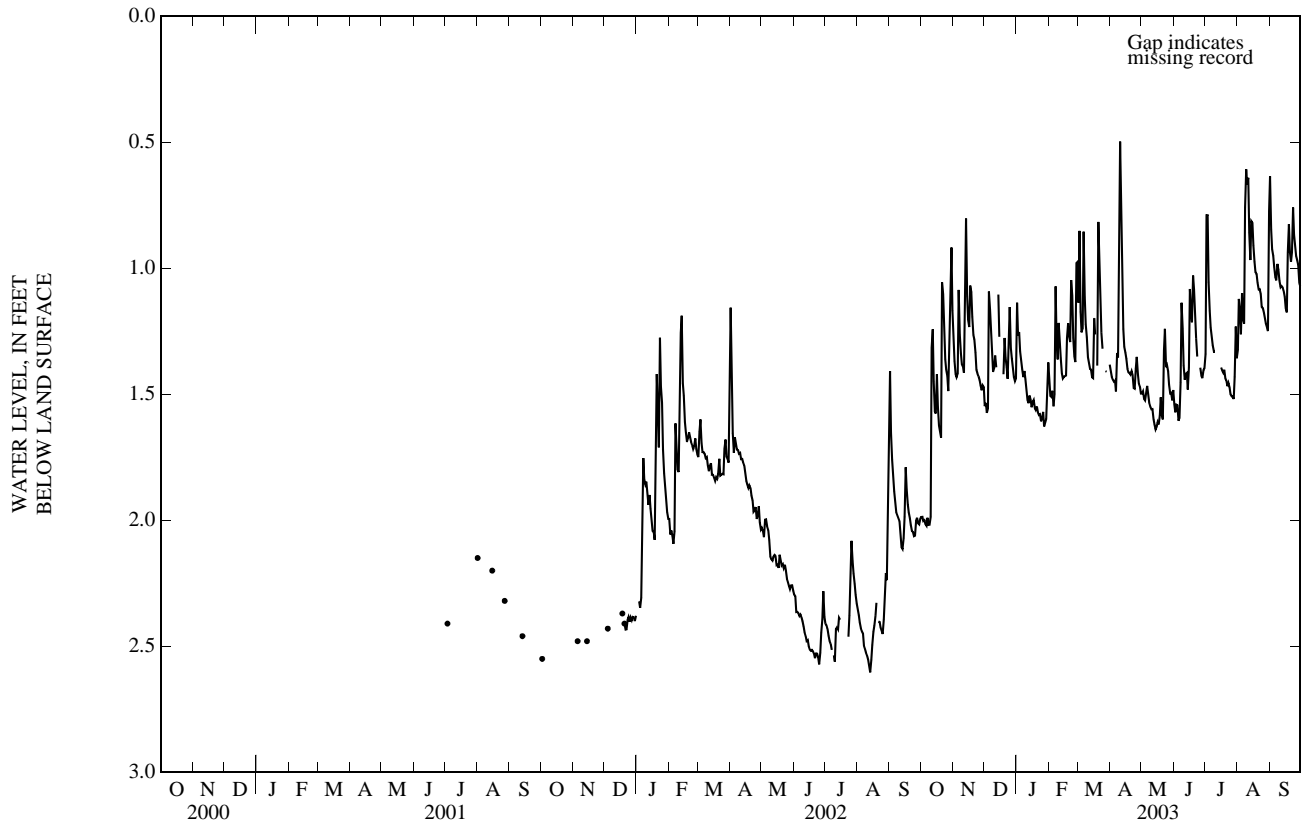
DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.99	1.29	1.55	1.14	1.45	1.14	1.41	1.50	1.54	1.34	1.32	0.64
2	1.99	1.37	1.53	1.27	1.51	0.85	1.43	1.49	1.57	0.79	1.12	0.85
3	2.00	1.42	1.57	1.25	1.51	1.17	1.44	1.52	1.54	0.79	1.17	0.92
4	2.00	1.43	1.56	1.33	1.49	1.25	1.45	1.52	1.54	1.06	1.26	0.95
5	2.02	1.42	1.09	1.37	1.55	1.24	1.45	1.50	1.61	1.17	1.10	1.00
6	2.02	1.09	1.16	1.40	1.50	0.86	1.49	1.47	1.59	1.24	1.20	1.03
7	1.99	1.26	1.26	1.43	1.07	1.12	1.34	1.50	1.45	1.28	1.22	1.05
8	2.02	1.34	1.34	1.41	1.29	1.22	1.35	1.53	1.14	1.31	0.76	0.98
9	2.02	1.38	1.41	1.44	1.36	1.27	0.95	1.55	1.24	1.33	0.61	1.01
10	1.99	1.39	1.40	1.48	1.22	1.35	0.50	1.56	1.39	1.33	0.67	1.05
11	1.32	1.42	1.35	1.52	1.28	1.37	0.87	1.56	1.44	---	0.64	1.08
12	1.24	1.06	1.39	1.54	1.36	1.40	1.10	1.60	1.42	---	0.86	1.07
13	1.45	0.80	---	1.51	1.42	1.40	1.24	1.62	1.42	---	0.97	1.08
14	1.57	1.11	1.10	1.52	1.44	1.43	1.31	1.64	1.48	---	0.81	1.09
15	1.58	1.21	1.27	1.55	1.43	1.44	1.34	1.63	1.39	---	0.82	1.11
16	1.42	1.23	---	1.53	1.43	1.20	1.36	1.61	1.08	1.39	0.91	1.16
17	1.55	1.07	---	1.52	1.43	1.26	1.40	1.62	1.18	1.41	0.97	1.18
18	1.62	1.09	---	1.55	1.28	---	1.41	1.59	1.21	1.42	1.02	0.94
19	1.65	1.19	1.42	1.56	1.22	1.39	1.42	1.51	1.03	1.40	1.02	0.83
20	1.67	1.27	1.28	1.55	1.27	0.82	1.42	1.58	1.08	1.44	1.06	0.94
21	1.06	1.28	1.35	1.57	1.29	0.98	1.41	1.60	1.18	1.45	1.08	0.97
22	1.10	1.33	1.39	1.58	1.05	1.16	1.42	1.33	1.28	1.47	1.08	0.94
23	1.25	1.40	1.44	1.58	1.11	1.26	1.48	1.24	1.35	1.46	1.10	0.76
24	1.36	1.42	1.27	1.61	1.28	1.32	1.48	1.39	---	1.47	1.15	0.87
25	1.40	1.43	1.15	1.60	1.35	---	1.40	1.39	---	1.50	1.16	0.92
26	1.43	1.44	1.32	1.57	1.37	---	1.35	1.41	1.40	1.51	1.17	0.95
27	1.49	1.47	1.36	1.63	0.98	1.41	1.42	1.46	1.43	1.51	1.20	0.97
28	1.32	1.48	1.39	1.61	0.98	1.41	1.46	1.50	1.44	1.52	1.22	0.99
29	1.11	1.46	1.43	1.60	---	---	1.47	1.49	1.41	1.43	1.23	1.06
30	0.92	1.47	1.45	1.47	---	---	1.50	1.52	1.40	1.23	1.25	1.07
31	1.17	---	1.44	1.37	---	1.38	---	1.48	---	1.36	0.77	---

WTR YR 2003 MEAN 1.32 HIGH 0.50 LOW 2.02

WAKE COUNTY—Continued

354356078403501. County number, WK-277; DENR Lake Wheeler Research Station MW-1S (Regolith well).



354356078403501 WK-277 DENR Lake Wheeler Research Station MW-1S (Regolith Well)—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2002 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: December 2001 to current year.

pH: December 2001 to current year.

WATER TEMPERATURE: December 2001 to current year.

DISSOLVED OXYGEN: December 2001 to current year.

DISSOLVED OXYGEN, PERCENT SATURATION: December 2001 to current year.

INSTRUMENTATION.-- Water-quality monitor with satellite telemetry from December 2001 to present.

REMARKS.--Station operated in cooperation with North Carolina Department of Environment and Natural Resources, Water Resources Division as part of the Piedmont/Mountains ground-water project. Dissolved oxygen, percent saturation, is computed using a barometric pressure of 760 mm Hg.

EXTREMES FOR PERIOD OF DAILY RECORD.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	288, September 1, 2002	109, August 25, 26, 2002
pH, standard units	6.1, September 1, 2002	4.7, on several days during the period
WATER TEMPERATURE, °C	17.4, October 11, 21, 28, 2002	13.6, February 22, 2003
DISSOLVED OXYGEN, mg/L	4.1, February 4-11, 13, 15-16, 2002	1.4, September 1, 2002
DISSOLVED OXYGEN, PERCENT SATURATION,%	40, on many days during the period	14, September 1, 2002

EXTREMES FOR CURRENT YEAR.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	213, November 14	114, November 9, 11
pH, standard units	5.9, November 14, 15	4.7, on several days during the year
WATER TEMPERATURE, °C	17.4, October 11, 21, 28	13.6, February 22
DISSOLVED OXYGEN, mg/L	4.0, January 30 - February 5	2.7, September 30
DISSOLVED OXYGEN, PERCENT SATURATION,%	39, January 30, 31, February 1-5	28, July 2, 3, September 30

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SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
 WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	116	117	118	124	126	128	131	134	133	134	138	142
2	116	117	118	123	126	128	131	133	133	134	138	142
3	116	117	118	123	126	128	132	133	133	134	138	142
4	116	117	118	122	126	129	133	133	133	134	138	143
5	116	116	121	122	127	129	133	133	133	135	138	143
6	117	117	126	123	127	129	133	133	133	135	139	143
7	118	118	122	123	127	129	133	134	133	136	139	143
8	118	115	120	123	127	129	133	134	133	136	139	143
9	118	115	119	123	127	129	134	134	132	136	139	143
10	117	115	119	123	127	129	134	134	132	137	139	143
11	118	115	119	124	127	129	134	134	132	---	139	144
12	121	118	119	124	127	129	134	133	132	---	139	144
13	120	136	119	124	128	129	134	133	132	---	139	144
14	118	156	120	124	128	130	135	133	133	---	139	144
15	117	176	120	123	128	130	134	134	133	---	139	144
16	117	142	---	123	128	129	134	134	132	137	139	144
17	118	136	---	123	128	129	134	134	133	137	139	144
18	117	140	---	123	128	---	134	134	133	137	140	144
19	118	127	123	124	128	129	134	134	132	137	139	143
20	118	121	123	124	128	130	134	134	132	137	140	143
21	119	118	123	124	128	130	134	134	132	137	141	143
22	121	118	123	124	128	130	134	134	132	137	141	143
23	121	117	123	124	128	130	134	134	132	137	141	142
24	119	117	124	124	128	130	134	134	---	137	141	142
25	117	117	123	124	129	---	135	133	---	137	141	143
26	117	117	124	124	129	---	134	133	133	137	141	143
27	117	117	124	124	128	130	134	134	133	137	141	143
28	117	117	123	124	129	130	134	134	134	137	142	143
29	117	117	123	124	---	---	134	134	134	137	142	143
30	118	118	123	125	---	---	134	133	134	138	142	143
31	118	---	123	126	---	131	---	133	---	138	142	---
MEAN	118	123	---	124	128	---	134	134	---	---	140	143
MAX	121	176	---	126	129	---	135	134	---	---	142	144
MIN	116	115	---	122	126	---	131	133	---	---	138	142

354356078403501 WK-277 DENR Lake Wheeler Research Station MW-1S (Regolith Well)—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
 WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.5	5.5	5.5	5.3	5.0	5.0	4.8	4.7	4.8	4.7	4.8	4.8
2	5.5	5.5	5.5	5.3	5.0	5.0	4.8	4.7	4.7	4.7	4.8	4.8
3	5.5	5.5	5.5	5.3	5.0	5.0	4.8	4.7	4.7	4.7	4.8	4.8
4	5.4	5.5	5.5	5.2	5.0	5.0	4.8	4.7	4.7	4.7	4.8	4.8
5	5.4	5.5	5.5	5.2	5.0	5.0	4.8	4.7	4.7	4.7	4.8	4.8
6	5.5	5.5	5.6	5.2	5.0	5.0	4.8	4.7	4.7	4.7	4.8	4.8
7	5.5	5.5	5.6	5.2	5.0	5.0	4.8	4.8	4.7	4.7	4.8	4.8
8	5.5	5.5	5.5	5.2	5.0	5.0	4.9	4.8	4.7	4.7	4.8	4.8
9	5.5	5.5	5.5	5.2	5.0	5.0	4.9	4.8	4.7	4.7	4.8	4.8
10	5.5	5.5	5.5	5.2	5.0	5.0	4.9	4.8	4.7	4.7	4.8	4.8
11	5.5	5.5	5.5	5.2	4.9	5.0	4.9	4.8	4.7	---	4.8	4.8
12	5.6	5.5	5.5	5.2	4.9	5.0	4.9	4.8	4.7	---	4.8	4.8
13	5.6	5.6	5.5	5.2	4.9	5.0	4.9	4.8	4.7	---	4.8	4.8
14	5.6	5.7	5.6	5.2	4.9	5.0	4.9	4.8	4.7	---	4.8	4.8
15	5.5	5.8	5.6	5.2	4.9	5.0	4.9	4.9	4.7	---	4.8	4.8
16	5.5	5.6	---	5.2	5.0	5.0	4.9	4.9	4.7	4.8	4.8	4.8
17	5.6	5.6	---	5.2	5.0	5.0	4.9	4.8	4.7	4.7	4.8	4.8
18	5.5	5.7	---	5.2	5.0	5.0	4.8	4.8	4.7	4.7	4.8	4.8
19	5.6	5.6	5.5	5.1	5.0	5.0	4.8	4.8	4.8	4.7	4.8	4.8
20	5.6	5.5	5.4	5.1	5.0	4.9	4.8	4.8	4.8	4.7	4.8	4.8
21	5.6	5.5	5.4	5.1	5.0	4.9	4.8	4.7	4.8	4.7	4.8	4.8
22	5.6	5.5	5.4	5.1	5.0	4.9	4.8	4.8	4.8	4.7	4.8	4.8
23	5.6	5.5	5.4	5.1	5.0	4.9	4.8	4.8	4.8	4.7	4.8	4.8
24	5.6	5.5	5.4	5.1	5.0	4.9	4.8	4.8	---	4.7	4.8	4.8
25	5.5	5.5	5.4	5.1	5.0	---	4.8	4.8	---	4.7	4.8	4.8
26	5.5	5.5	5.4	5.1	5.0	---	4.8	4.8	4.7	4.7	4.8	4.8
27	5.5	5.5	5.4	5.0	5.0	4.9	4.8	4.8	4.7	4.7	4.8	4.8
28	5.5	5.5	5.3	5.0	5.0	4.9	4.8	4.8	4.7	4.7	4.8	4.8
29	5.5	5.5	5.3	5.0	---	---	4.8	4.8	4.7	4.7	4.8	4.8
30	5.5	5.5	5.3	4.9	---	---	4.7	4.8	4.7	4.8	4.8	4.8
31	5.5	---	5.3	5.0	---	4.9	---	4.8	---	4.8	4.8	---
MEAN	5.5	5.5	---	5.1	5.0	---	4.8	4.8	---	---	4.8	4.8
MAX	5.6	5.8	---	5.3	5.0	---	4.9	4.9	---	---	4.8	4.8
MIN	5.4	5.5	---	4.9	4.9	---	4.7	4.7	---	---	4.8	4.8

354356078403501 WK-277 DENR Lake Wheeler Research Station MW-1S (Regolith Well)—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.9	17.1	16.5	15.4	14.3	14.1	14.6	14.9	15.2	15.5	15.8	16.1
2	16.9	17.1	16.4	15.4	14.4	13.9	14.6	14.9	15.2	15.5	15.8	16.1
3	16.9	17.1	16.4	15.4	14.4	14.1	14.6	14.9	15.2	15.6	15.8	16.2
4	16.9	17.1	16.4	15.4	14.4	14.2	14.6	14.9	15.2	15.6	15.8	16.2
5	16.9	17.1	16.0	15.4	14.4	14.2	14.6	14.9	15.3	15.6	15.9	16.2
6	16.9	17.2	16.1	15.4	14.4	14.0	14.7	14.9	15.3	15.6	15.9	16.2
7	16.9	17.1	16.1	15.4	14.0	14.2	14.6	14.9	15.3	15.6	15.9	16.2
8	16.9	17.0	16.1	15.4	14.3	14.3	14.6	15.0	15.3	15.6	15.9	16.2
9	16.9	17.0	16.0	15.4	14.3	14.3	14.5	15.0	15.3	15.6	15.9	16.2
10	17.0	17.0	16.0	15.4	14.2	14.3	14.5	15.0	15.3	15.6	15.9	16.2
11	17.1	17.0	15.9	15.4	14.2	14.3	14.6	15.0	15.3	---	15.9	16.2
12	17.1	17.1	15.9	15.3	14.3	14.3	14.6	15.0	15.3	---	15.9	16.2
13	17.0	17.0	15.7	15.3	14.3	14.3	14.7	15.0	15.3	---	15.9	16.2
14	17.0	17.0	15.7	15.2	14.3	14.3	14.7	15.0	15.4	---	15.9	16.2
15	17.0	17.0	15.8	15.2	14.2	14.3	14.7	15.0	15.4	---	16.0	16.3
16	17.1	17.0	---	15.2	14.2	14.2	14.7	15.0	15.4	15.7	16.0	16.3
17	17.0	16.9	---	15.1	14.2	14.3	14.7	15.1	15.4	15.7	16.0	16.3
18	17.0	16.9	---	15.1	13.9	---	14.7	15.1	15.4	15.7	16.0	16.3
19	17.0	16.9	15.8	15.0	14.0	14.4	14.7	15.1	15.4	15.7	16.0	16.3
20	17.0	16.8	15.7	15.0	14.1	14.2	14.7	15.1	15.4	15.7	16.0	16.3
21	17.2	16.8	15.7	15.0	14.1	14.4	14.8	15.1	15.4	15.7	16.0	16.3
22	17.1	16.8	15.8	14.9	14.0	14.4	14.8	15.1	15.4	15.7	16.0	16.3
23	17.0	16.8	15.8	14.9	14.0	14.5	14.8	15.1	15.4	15.7	16.0	16.3
24	17.0	16.7	15.6	14.9	14.2	14.5	14.8	15.1	---	15.7	16.0	16.3
25	17.0	16.7	15.6	14.8	14.2	---	14.8	15.1	---	15.7	16.1	16.3
26	17.0	16.7	15.6	14.8	14.2	---	14.8	15.2	15.5	15.8	16.1	16.4
27	17.0	16.6	15.6	14.8	14.0	14.6	14.8	15.2	15.5	15.8	16.1	16.4
28	17.2	16.6	15.6	14.7	13.9	14.6	14.8	15.2	15.5	15.8	16.1	16.4
29	17.1	16.6	15.6	14.7	---	---	14.8	15.2	15.5	15.8	16.1	16.4
30	17.1	16.5	15.5	14.4	---	---	14.8	15.2	15.5	15.8	16.1	16.4
31	17.1	---	15.5	14.2	---	14.6	---	15.2	---	15.8	16.1	---
MEAN	17.0	16.9	---	15.1	14.2	---	14.7	15.0	---	---	16.0	16.3
MAX	17.2	17.2	---	15.4	14.4	---	14.8	15.2	---	---	16.1	16.4
MIN	16.9	16.5	---	14.2	13.9	---	14.5	14.9	---	---	15.8	16.1

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DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
 WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.4	---	---	---	4.0	3.6	3.4	3.0	3.0	3.0	3.1	3.0
2	3.4	---	---	---	4.0	3.6	3.4	3.0	3.0	2.9	3.1	3.0
3	3.4	---	---	---	4.0	3.6	3.4	3.0	3.0	2.9	3.1	3.0
4	3.4	---	---	---	4.0	3.6	3.3	3.0	3.0	3.0	3.1	3.0
5	3.3	---	---	---	3.9	3.6	3.3	3.0	3.0	3.0	3.1	3.0
6	---	---	---	---	3.9	3.5	3.3	3.0	3.0	3.0	3.1	3.0
7	---	---	---	---	3.8	3.5	3.3	3.0	3.0	2.9	3.1	3.0
8	---	---	---	---	3.9	3.6	3.4	3.0	3.0	3.0	3.1	3.0
9	---	---	---	---	3.9	3.6	3.3	3.0	3.1	3.0	3.1	3.0
10	---	---	---	---	3.9	3.5	3.3	3.0	3.0	3.0	3.1	3.0
11	---	---	---	---	3.9	3.5	3.4	3.0	3.0	---	3.1	3.0
12	---	---	---	---	3.9	3.5	3.4	3.0	3.0	---	3.1	3.1
13	---	---	---	---	3.9	3.5	3.4	3.0	3.0	---	3.1	3.1
14	---	---	---	---	3.9	3.5	3.3	3.0	3.0	---	3.1	3.1
15	---	---	---	---	3.8	3.5	3.2	3.0	3.0	---	3.1	3.1
16	---	---	---	---	3.8	3.5	3.2	3.0	3.1	3.0	3.1	3.1
17	---	---	---	---	3.8	3.5	3.1	3.0	3.1	3.0	3.1	3.0
18	---	---	---	---	3.8	---	3.1	3.0	3.0	3.0	3.1	3.0
19	---	---	---	---	3.8	3.4	3.2	3.0	3.1	3.1	3.1	3.1
20	---	---	---	---	3.8	3.3	3.1	3.0	3.1	3.1	3.1	3.0
21	---	---	---	---	3.8	3.4	3.1	3.0	3.0	3.1	3.1	3.0
22	---	---	---	---	3.8	3.4	3.1	3.0	3.0	3.1	3.1	3.0
23	---	---	---	---	3.6	3.4	3.1	3.0	3.0	3.1	3.1	3.0
24	---	---	---	---	3.7	3.4	3.1	3.0	---	3.1	3.0	3.1
25	---	---	---	---	3.6	---	3.1	3.0	---	3.1	3.0	3.0
26	---	---	---	---	3.6	---	3.1	3.0	3.0	3.1	3.0	3.0
27	---	---	---	---	3.6	3.4	3.1	3.0	3.0	3.1	3.0	3.0
28	---	---	---	---	3.6	3.3	3.1	3.0	3.0	3.1	3.0	3.0
29	---	---	---	---	---	---	3.1	3.0	3.0	3.1	3.0	3.0
30	---	---	---	---	---	---	3.1	3.0	3.0	3.1	3.0	3.0
31	---	---	---	4.0	---	3.4	---	3.0	---	3.1	3.0	---
MEAN	---	---	---	---	3.8	---	3.2	3.0	---	---	3.1	3.0
MAX	---	---	---	---	4.0	---	3.4	3.0	---	---	3.1	3.1
MIN	---	---	---	---	3.6	---	3.1	3.0	---	---	3.0	3.0

354356078403501 WK-277 DENR Lake Wheeler Research Station MW-1S (Regolith Well)—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION
 WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	---	---	---	39	35	34	30	30	30	31	31
2	35	---	---	---	39	35	34	30	30	29	31	31
3	35	---	---	---	39	35	34	30	30	29	31	31
4	35	---	---	---	39	35	33	30	30	30	31	31
5	34	---	---	---	38	35	33	30	30	30	31	31
6	---	---	---	---	38	34	33	30	30	30	31	31
7	---	---	---	---	37	34	33	30	30	29	31	31
8	---	---	---	---	38	35	34	30	30	30	31	31
9	---	---	---	---	38	35	32	30	31	30	31	31
10	---	---	---	---	38	34	33	30	30	30	31	31
11	---	---	---	---	38	34	34	30	30	---	31	31
12	---	---	---	---	38	34	34	30	30	---	31	32
13	---	---	---	---	38	34	34	30	30	---	31	32
14	---	---	---	---	38	34	33	30	30	---	31	32
15	---	---	---	---	37	34	32	30	30	---	31	32
16	---	---	---	---	37	34	32	30	31	30	31	32
17	---	---	---	---	37	34	31	30	31	30	31	31
18	---	---	---	---	37	---	31	30	30	30	31	31
19	---	---	---	---	37	33	32	30	31	31	31	32
20	---	---	---	---	37	32	31	30	31	31	31	31
21	---	---	---	---	37	33	31	30	30	31	31	31
22	---	---	---	---	37	33	31	30	30	31	31	31
23	---	---	---	---	35	33	31	30	30	31	31	31
24	---	---	---	---	36	33	31	30	---	31	30	32
25	---	---	---	---	35	---	31	30	---	31	31	31
26	---	---	---	---	35	---	31	30	30	31	31	31
27	---	---	---	---	35	33	31	30	30	31	31	31
28	---	---	---	---	35	33	31	30	30	31	31	31
29	---	---	---	---	---	---	31	30	30	31	31	31
30	---	---	---	---	---	---	31	30	30	31	31	31
31	---	---	---	39	---	34	---	30	---	31	31	---
MEAN	---	---	---	---	37	---	32	30	---	---	31	31
MAX	---	---	---	---	39	---	34	30	---	---	31	32
MIN	---	---	---	---	35	---	31	30	---	---	30	31

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 2001 to current year.

REMARKS.--Station operated in cooperation with North Carolina Department of Environment and Natural Resources, Water Resources Division as part of the Piedmont/Mountains ground-water project.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Dis-solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	Temper-ature, water, deg C (00010)	Hard-ness, water, unfltrd mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnes-ium, water, fltrd, mg/L (00925)	Potas-sium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf incrm. titr., field, mg/L as CaCO3 (00419)	Bromide water, fltrd, mg/L (71870)	Chlor-ide, water, fltrd, mg/L (00940)
NOV 14...	1515	2.8	5.5	126	16.7	31	7.75	2.71	4.65	12.0	24	0.03	7.89
Date	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Alum-inum, water, fltrd, ug/L (01106)	Anti-mony, water, fltrd, ug/L (01095)	Arsenic water, fltrd, ug/L (01000)	Barium, water, fltrd, ug/L (01005)	Beryll-ium, water, fltrd, ug/L (01010)
NOV 14...	27.1	2.4	110	0.19	E.03	5.64	<0.008	0.03	4	<0.30	<2	74	0.13
Date	Boron, water, fltrd, ug/L (01020)	Cadmium water, fltrd, ug/L (01025)	Chrom-ium, water, fltrd, ug/L (01030)	Cobalt water, fltrd, ug/L (01035)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Mangan-ese, water, fltrd, ug/L (01056)	Molyb-denum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)	Selen-ium, water, fltrd, ug/L (01145)	Silver, water, fltrd, ug/L (01075)	Zinc, water, fltrd, ug/L (01090)
NOV 14...	<13	0.05	E.5	0.068	1.5	<10	<0.08	11.0	1.0	2.38	<3	<0.2	3
Date	Alpha radio-activty water, fltrd, Th-230, pCi/L (04126)	Gross beta radioac water, fltrd, Cs-137, pCi/L (03515)	Rn-222, water, unfltrd pCi/L (82303)	Uranium natural water, fltrd, ug/L (22703)									
NOV 14...	1.3	7.6	4,810	0.85									