

353135080524203 IR-132 DENR Langtree Research Station MW-2D (Bedrock Well)—Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2002 to March 2004 (discontinued).

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: August 2002 to March 2004.

pH: August 2002 to March 2004.

WATER TEMPERATURE: August 2002 to March 2004.

DISSOLVED OXYGEN: August 2002 to March 2004.

DISSOLVED OXYGEN, PERCENT SATURATION: August 2002 to March 2004.

INSTRUMENTATION.-- Water-quality monitor with satellite telemetry from August 2002 to March 2004.

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 study. 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	97, December 17, 20, 2002, January 17, 19, 2004	83, August 23, 31, 2002, September 1, 2, 2002
pH, standard units	7.5, December 15, 16, 17, 2002	6.4, March 14, 2004
WATER TEMPERATURE, °C	16.2, June 23, 2003	16.0, on many days during the period
DISSOLVED OXYGEN, mg/L	7.5, August 28, 2002	4.8, on several days during the period
DISSOLVED OXYGEN, PERCENT SATURATION, %	78, August 28, 2002	50, on several days during the period

EXTREMES FOR CURRENT YEAR.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	97, January 17, 19	89, March 14-18
pH, standard units	6.9, on several days during the year	6.4, March 14
WATER TEMPERATURE, °C	16.1, on many days during the year	16.1, on many days during the year
DISSOLVED OXYGEN, mg/L	5.6, on many days during the year	4.9, on several days during the year
DISSOLVED OXYGEN, PERCENT SATURATION, %	59, on many days during the year	51, on several days during the year

353135080524203 IR-132 DENR Langtree Research Station MW-2D (Bedrock Well)—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	90	91	93	96	95	91	---	---	---	---	---	---
2	90	91	93	96	95	91	---	---	---	---	---	---
3	90	91	93	96	95	92	---	---	---	---	---	---
4	90	91	93	96	95	91	---	---	---	---	---	---
5	90	91	93	96	94	92	---	---	---	---	---	---
6	90	91	93	96	94	91	---	---	---	---	---	---
7	90	91	93	96	94	90	---	---	---	---	---	---
8	90	91	93	96	94	90	---	---	---	---	---	---
9	90	91	93	96	94	90	---	---	---	---	---	---
10	90	91	94	96	94	90	---	---	---	---	---	---
11	90	91	94	96	94	90	---	---	---	---	---	---
12	90	91	94	96	94	90	---	---	---	---	---	---
13	90	91	94	96	93	91	---	---	---	---	---	---
14	90	91	94	96	93	90	---	---	---	---	---	---
15	90	91	94	96	93	89	---	---	---	---	---	---
16	90	91	94	---	93	89	---	---	---	---	---	---
17	90	---	94	96	93	89	---	---	---	---	---	---
18	90	92	94	96	93	---	---	---	---	---	---	---
19	90	92	94	96	93	---	---	---	---	---	---	---
20	90	92	94	96	92	---	---	---	---	---	---	---
21	90	92	94	96	92	---	---	---	---	---	---	---
22	90	92	94	96	92	---	---	---	---	---	---	---
23	90	92	95	96	92	---	---	---	---	---	---	---
24	90	93	95	96	92	---	---	---	---	---	---	---
25	90	92	95	96	92	---	---	---	---	---	---	---
26	90	93	95	96	92	---	---	---	---	---	---	---
27	90	93	95	96	92	---	---	---	---	---	---	---
28	90	93	94	95	91	---	---	---	---	---	---	---
29	90	93	95	95	91	---	---	---	---	---	---	---
30	90	93	95	95	---	---	---	---	---	---	---	---
31	91	---	95	95	---	---	---	---	---	---	---	---
MEAN	90	---	94	---	93	---	---	---	---	---	---	---
MAX	91	--	95	--	95	--	---	---	---	---	---	---
MIN	90	--	93	--	91	--	---	---	---	---	---	---

353135080524203 IR-132 DENR Langtree Research Station MW-2D (Bedrock Well)—Continued

 PH, WATER, UNFILTERED, FIELD, STANDARD UNITS  
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.6	6.7	6.8	6.8	6.7	6.6	---	---	---	---	---	---
2	6.7	6.7	6.8	6.8	6.7	6.6	---	---	---	---	---	---
3	6.7	6.7	6.8	6.8	6.7	6.6	---	---	---	---	---	---
4	6.7	6.8	6.8	6.8	6.7	6.6	---	---	---	---	---	---
5	6.7	6.8	6.8	6.8	6.7	6.5	---	---	---	---	---	---
6	6.7	6.8	6.9	6.8	6.7	6.5	---	---	---	---	---	---
7	6.7	6.8	6.8	6.8	6.7	6.5	---	---	---	---	---	---
8	6.7	6.8	6.8	6.8	6.6	6.5	---	---	---	---	---	---
9	6.7	6.7	6.8	6.8	6.6	6.5	---	---	---	---	---	---
10	6.7	6.7	6.8	6.9	6.6	6.5	---	---	---	---	---	---
11	6.6	6.7	6.8	6.9	6.7	6.5	---	---	---	---	---	---
12	6.6	6.7	6.8	6.9	6.7	6.5	---	---	---	---	---	---
13	6.6	6.7	6.8	6.9	6.7	6.6	---	---	---	---	---	---
14	6.6	6.8	6.8	6.9	6.7	6.5	---	---	---	---	---	---
15	6.6	6.8	6.8	6.9	6.7	6.5	---	---	---	---	---	---
16	6.6	6.8	6.8	---	6.6	6.5	---	---	---	---	---	---
17	6.7	---	6.8	6.8	6.6	6.5	---	---	---	---	---	---
18	6.7	6.7	6.8	6.8	6.6	---	---	---	---	---	---	---
19	6.7	6.8	6.8	6.8	6.6	---	---	---	---	---	---	---
20	6.7	6.8	6.8	6.8	6.6	---	---	---	---	---	---	---
21	6.7	6.8	6.8	6.7	6.6	---	---	---	---	---	---	---
22	6.7	6.8	6.8	6.7	6.6	---	---	---	---	---	---	---
23	6.7	6.8	6.8	6.7	6.6	---	---	---	---	---	---	---
24	6.7	6.8	6.8	6.7	6.6	---	---	---	---	---	---	---
25	6.7	6.8	6.9	6.7	6.6	---	---	---	---	---	---	---
26	6.7	6.8	6.9	6.7	6.6	---	---	---	---	---	---	---
27	6.7	6.8	6.8	6.7	6.6	---	---	---	---	---	---	---
28	6.7	6.8	6.8	6.8	6.6	---	---	---	---	---	---	---
29	6.7	6.8	6.8	6.8	6.6	---	---	---	---	---	---	---
30	6.7	6.8	6.8	6.7	---	---	---	---	---	---	---	---
31	6.7	---	6.8	6.7	---	---	---	---	---	---	---	---
MEAN	6.7	---	6.8	---	6.6	---	---	---	---	---	---	---
MAX	6.7	---	6.9	---	6.7	---	---	---	---	---	---	---
MIN	6.6	---	6.8	---	6.6	---	---	---	---	---	---	---

353135080524203 IR-132 DENR Langtree Research Station MW-2D (Bedrock Well)—Continued

TEMPERATURE, WATER, DEGREES CELSIUS  
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.1	16.1	16.1	16.1	16.1	16.1	---	---	---	---	---	---
2	16.1	16.1	16.1	16.1	16.1	16.1	---	---	---	---	---	---
3	16.1	16.1	16.1	16.1	16.1	16.1	---	---	---	---	---	---
4	16.1	16.1	16.1	16.1	16.1	16.1	---	---	---	---	---	---
5	16.1	16.1	16.1	16.1	16.1	16.1	---	---	---	---	---	---
6	16.1	16.1	16.1	16.1	16.1	16.1	---	---	---	---	---	---
7	16.1	16.1	16.1	16.1	16.1	16.1	---	---	---	---	---	---
8	16.1	16.1	16.1	16.1	16.1	16.1	---	---	---	---	---	---
9	16.1	16.1	16.1	16.1	16.1	16.1	---	---	---	---	---	---
10	16.1	16.1	16.1	16.1	16.1	16.1	---	---	---	---	---	---
11	16.1	16.1	16.1	16.1	16.1	16.1	---	---	---	---	---	---
12	16.1	16.1	16.1	16.1	16.1	16.1	---	---	---	---	---	---
13	16.1	16.1	16.1	16.1	16.1	16.1	---	---	---	---	---	---
14	16.1	16.1	16.1	16.1	16.1	16.1	---	---	---	---	---	---
15	16.1	16.1	16.1	16.1	16.1	16.1	---	---	---	---	---	---
16	16.1	16.1	16.1	---	16.1	16.1	---	---	---	---	---	---
17	16.1	---	16.1	16.1	16.1	16.1	---	---	---	---	---	---
18	16.1	16.1	16.1	16.1	16.1	---	---	---	---	---	---	---
19	16.1	16.1	16.1	16.1	16.1	---	---	---	---	---	---	---
20	16.1	16.1	16.1	16.1	16.1	---	---	---	---	---	---	---
21	16.1	16.1	16.1	16.1	16.1	---	---	---	---	---	---	---
22	16.1	16.1	16.1	16.1	16.1	---	---	---	---	---	---	---
23	16.1	16.1	16.1	16.1	16.1	---	---	---	---	---	---	---
24	16.1	16.1	16.1	16.1	16.1	---	---	---	---	---	---	---
25	16.1	16.1	16.1	16.1	16.1	---	---	---	---	---	---	---
26	16.1	16.1	16.1	16.1	16.1	---	---	---	---	---	---	---
27	16.1	16.1	16.1	16.1	16.1	---	---	---	---	---	---	---
28	16.1	16.1	16.1	16.1	16.1	---	---	---	---	---	---	---
29	16.1	16.1	16.1	16.1	16.1	---	---	---	---	---	---	---
30	16.1	16.1	16.1	16.1	---	---	---	---	---	---	---	---
31	16.1	---	16.1	16.1	---	---	---	---	---	---	---	---
MEAN	16.1	---	16.1	---	16.1	---	---	---	---	---	---	---
MAX	16.1	---	16.1	---	16.1	---	---	---	---	---	---	---
MIN	16.1	---	16.1	---	16.1	---	---	---	---	---	---	---

353135080524203 IR-132 DENR Langtree Research Station MW-2D (Bedrock Well)—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER  
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
 DAILY MEAN VALUES

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

353135080524203 IR-132 DENR Langtree Research Station MW-2D (Bedrock Well)—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION  
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	59	57	57	56	53	---	---	---	---	---	---
2	56	58	57	57	56	52	---	---	---	---	---	---
3	56	58	57	57	55	53	---	---	---	---	---	---
4	56	58	57	57	55	53	---	---	---	---	---	---
5	57	58	57	57	55	53	---	---	---	---	---	---
6	57	58	58	57	55	52	---	---	---	---	---	---
7	57	58	59	57	55	53	---	---	---	---	---	---
8	57	59	59	57	55	53	---	---	---	---	---	---
9	57	59	59	57	55	52	---	---	---	---	---	---
10	57	59	59	57	55	52	---	---	---	---	---	---
11	57	59	59	57	55	52	---	---	---	---	---	---
12	57	59	59	57	55	52	---	---	---	---	---	---
13	57	59	59	57	55	52	---	---	---	---	---	---
14	57	59	59	57	55	52	---	---	---	---	---	---
15	57	58	59	57	54	52	---	---	---	---	---	---
16	57	59	59	---	54	52	---	---	---	---	---	---
17	57	---	59	59	54	52	---	---	---	---	---	---
18	57	59	59	59	54	---	---	---	---	---	---	---
19	57	58	59	58	54	---	---	---	---	---	---	---
20	57	57	59	59	54	---	---	---	---	---	---	---
21	57	57	59	58	54	---	---	---	---	---	---	---
22	57	57	58	57	54	---	---	---	---	---	---	---
23	57	57	58	56	54	---	---	---	---	---	---	---
24	57	57	58	56	54	---	---	---	---	---	---	---
25	57	57	58	56	54	---	---	---	---	---	---	---
26	57	57	57	56	53	---	---	---	---	---	---	---
27	58	57	58	56	53	---	---	---	---	---	---	---
28	59	57	58	56	53	---	---	---	---	---	---	---
29	59	57	57	56	53	---	---	---	---	---	---	---
30	59	57	57	56	---	---	---	---	---	---	---	---
31	59	---	57	56	---	---	---	---	---	---	---	---
MEAN	57	---	58	---	54	---	---	---	---	---	---	---
MAX	59	--	59	--	56	--	---	---	---	---	---	---
MIN	56	--	57	--	53	--	---	---	---	---	---	---