



Water-Data Report 2012

**351118079281001 Local number MO-252 Pinehurst 14**

Northern Atlantic Coastal Plain aquifer system  
Black Creek Aquifer

Moore County, NC

LOCATION.--Lat 35°11'17.9", long 79°28'09.7" referenced to North American Datum of 1983, Moore County, NC, Hydrologic Unit 03040203, 0.5 mi south of Pinehurst on North Carolina Highway 5 and 0.15 mi southwest of intersection of North Carolina Highway 5 and North Carolina Highway 2. Owner: Moore County Public Utilities.

**WATER-QUALITY RECORDS**

WELL CHARACTERISTICS.--Drilled observation well, depth 122 ft, diameter 8 in, cased to 92 ft, screened interval from 92 ft to 122 ft.

DATUM.--Land-surface datum is 500 ft above North American Vertical Datum of 1929 (from topographic map). Measuring point: top of well casing, 2,95 ft above land-surface datum.

PERIOD OF RECORD.--September 2012.

REMARKS.--This site was established as part of a groundwater-quality study in the Pinehurst area.

**WATER-QUALITY DATA  
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

Part 1 of 6

[CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; P, phosphorus; ft, feet; mg/L, milligrams per liter; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than]

| Date       | Sample start time | Medium name | Sample type | Depth to water level, ft below land surface (72019) | Dissolved oxygen, unfiltered, mg/L (00300) | pH, unfiltered, field, standard units (00400) | Specific conductance, unfiltered, water, µS/cm at 25°C (00095) | Temperature, water, °C (00010) | Calcium, water, filtered, mg/L (00915) | Magnesium, water, filtered, mg/L (00925) |
|------------|-------------------|-------------|-------------|---|--|---|--|--------------------------------|--|--|
| 09-19-2012 | 1530              | Groundwater | Regular     | 53.99   | 5.9  | 5.1   | 124  | 18.5                           | 3.25                                   | 2.94                                     |

## 351118079281001 Local number MO-252 Pinehurst 14—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

Part 2 of 6

[CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; P, phosphorus; ft, feet; mg/L, milligrams per liter; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than]

| Date       | Sample start time | Potassium, water, filtered, mg/L (00935) | Sodium, water, filtered, mg/L (00930) | Alkalinity, water, filtered, fixed endpoint (pH 4.5) titration, laboratory, mg/L as CaCO <sub>3</sub> (29801) | Chloride, water, filtered, mg/L (00940) | Fluoride, water, filtered, mg/L (00950) | Sulfate, water, filtered, mg/L (00945) | Ammonia, water, filtered, mg/L as N (00608) | Nitrate plus nitrite, water, filtered, mg/L as N (00631) | Nitrate, water, filtered, mg/L as N (00618) |
|------------|-------------------|--|---------------------------------------|---|---|---|--|---|--|---|
| 09-19-2012 | 1530              | 1.15                                     | 4.80                                  | < 4.6   | 12.9                                    | < .04                                   | 1.19                                   | 0.014                                       | 3.42   | 3.42  |

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

Part 3 of 6

[CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; P, phosphorus; ft, feet; mg/L, milligrams per liter; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than]

| Date       | Sample start time | Nitrite, water, filtered, mg/L as N (00613) | Orthophosphate, water, filtered, mg/L as P (00671) | Phosphorus, water, unfiltered, mg/L as P (00665) | Total nitrogen, water, filtered, analytically determined, mg/L (62854) | Aluminum, water, unfiltered, recoverable, µg/L (01105) | Barium, water, unfiltered, recoverable, µg/L (01007) | Beryllium, water, unfiltered, recoverable, µg/L (01012) | Cadmium, water, unfiltered, µg/L (01027) |
|------------|-------------------|---|--|--|--|--|--|---|--|
| 09-19-2012 | 1530              | < .001                                      | < .004   | < .004   | 3.43   | 68.3   | 84.2   | 0.10  | 0.084                                    |

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

Part 4 of 6

[CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; P, phosphorus; ft, feet; mg/L, milligrams per liter; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than]

| Date       | Sample start time | Chromium, water, unfiltered, recoverable, µg/L (01034) | Cobalt, water, unfiltered, recoverable, µg/L (01037) | Copper, water, unfiltered, recoverable, µg/L (01042) | Iron, water, filtered, µg/L (01046) | Lead, water, unfiltered, recoverable, µg/L (01051) | Lithium, water, unfiltered, recoverable, micrograms per liter (01132) | Manganese, water, unfiltered, recoverable, µg/L (01055) | Molybdenum, water, unfiltered, recoverable, µg/L (01062) | Nickel, water, unfiltered, recoverable, µg/L (01067) |
|------------|-------------------|--|--|--|-------------------------------------|--|---|---|--|--|
| 09-19-2012 | 1530              | < .30  | 1.2  | < .70  | 93.6                                | 0.56   | 0.36  | 45.1  | < .05  | 1.5  |

## 351118079281001 Local number MO-252 Pinehurst 14—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

Part 5 of 6

[CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; P, phosphorus; ft, feet; mg/L, milligrams per liter; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than]

| Date       | Sample start time | Silver, water, unfiltered, recoverable, µg/L (01077) | Strontium, water, unfiltered, recoverable, micrograms per liter (01082) | Thallium, water, unfiltered, µg/L (01059) | Zinc, water, unfiltered, recoverable, µg/L (01092) | Antimony, water, unfiltered, µg/L (01097) | Selenium, water, unfiltered, µg/L (01147) | Alpha-emitting isotopes of radium, water, unfiltered, picocuries per liter (63025) | Radium-226, water, unfiltered, picocuries per liter (09501) | Radium-228, water, unfiltered, picocuries per liter (11501) |
|------------|-------------------|--|---|---|--|---|---|--|---|---|
| 09-19-2012 | 1530              | <.015  | 29.2  | <.06                                      | 25.1   | <.18                                      | 0.199                                     | 4.2  | 4.6   | 7.5   |

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2011 TO**  
**SEPTEMBER 2012**

Part 6 of 6

[CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; P, phosphorus; ft, feet; mg/L, milligrams per liter; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than]

| Date       | Sample start time | Uranium (natural), water, unfiltered, micrograms per liter (28011) |
|------------|-------------------|--|
| 09-19-2012 | 1530              | 0.174  |