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UNITED STATES DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

# NEW HAMPSHIRE BASIC-DATA REPORT NO. 1 GROUND-WATER SERIES

## SOUTHEASTERN AREA

By

EDWARD BRADLEY and RICHARD G. PETERSEN

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Geological Survey

NEW HAMPSHIRE BASIC-DATA REPORT NO. 1  
GROUND-WATER SERIES

SOUTHEASTERN AREA

Records and logs of selected wells and test holes, records of selected springs, chemical analyses of water, and water levels in observation wells in southeastern New Hampshire

By

Edward Bradley and Richard G. Petersen

Prepared in cooperation with the State of New Hampshire,  
Water Resources Board

1962

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## INTRODUCTION

The area covered by this report (fig. 1) includes about 390 square miles of southeastern New Hampshire adjacent to the Atlantic Ocean. It lies between Massachusetts on the south and Maine on the north and east, and it is bounded on the east by the Atlantic Ocean and on the west by a line drawn approximately northward from Atkinson at the Massachusetts border to Farmington near the Maine border. The area includes parts of Rockingham and Strafford Counties.

The report presents basic data collected as part of an investigation of the geology and ground-water resources of southeastern New Hampshire by the U. S. Geological Survey in cooperation with the New Hampshire Water Resources Board. These data have been prepared for release in order to make available to the public basic ground-water data that will be useful in the planning of water-resources development.

Most of the data contained in this report were collected by Edward Bradley during the period September 1953 to January 1958.

Table 1 is intended to be an aid in determining the general characteristics and relative excellence as aquifers of the water-bearing units penetrated by the wells and test holes.



Area included in this report

Figure 1.-- Index map of New Hampshire showing the area included in this report.

In table 4 the well and test hole numbers and location coordinates correspond to those in the table of well records. Altitudes expressed in feet and tenths or in feet, tenths, and hundredths are instrumentally determined; those in whole feet are interpolated from topographic maps. Datum is mean sea level. All the logs except those of test holes drilled by the U. S. Geological Survey are drillers' logs. Logs of Geological Survey test holes are identified as geologists' logs.

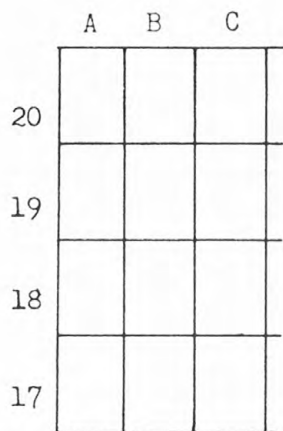
The drillers' logs have been rearranged and modified slightly for conformity and classification into stratigraphic units. The stratigraphic correlations are by Edward Bradley and are tentative. Experience with drillers' logs in the report area has shown that sometimes fine sand is reported as "clay". In interpreting the stratigraphic divisions in table 4, this fact has been kept in mind, and a few logs show "clay" under "ice-contact deposits", which normally consist of sand and gravel. Also a few feet of silt and clay sometimes may be interbedded with ice-contact deposits near the contact with marine deposits. They have been included with the ice-contact deposits in the interpretations of the logs in the table.

## WELL-NUMBERING AND LOCATION SYSTEMS

Wells and test holes are numbered consecutively in each town or city. Springs are numbered similarly, but the letters "sp" precede the numbers in order to distinguish them from well numbers.

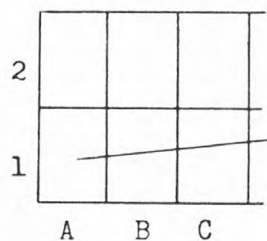
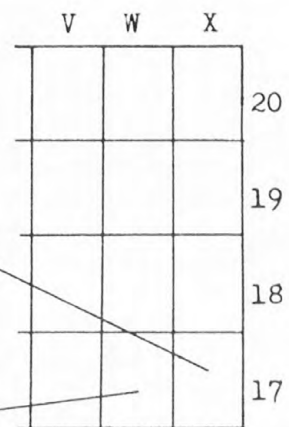
For ease in locating wells, test holes, and springs on the maps, a well-location system, based on the  $7\frac{1}{2}$ -minute quadrangles in New England, has been adopted. In this system each  $7\frac{1}{2}$ -minute quadrangle is designated by a capital letter and a number, beginning with A 1 for the Glenville quadrangle, Connecticut. From here the quadrangles are lettered from west to east and numbered from south to north. Each  $7\frac{1}{2}$ -minute quadrangle is divided into nine  $2\frac{1}{2}$ -minute rectangles which are numbered consecutively, as shown in figure 2.

On the well-location maps (figs. 3 and 4), the quadrangle designators are indicated on the margins, and the  $2\frac{1}{2}$ -minute rectangles are bounded by the lines of latitude and longitude.



Portsmouth, N.H.  
7½-minute quadrangle

Exeter, N.H.  
7½-minute quadrangle



Glenville, Conn.  
7½-minute quadrangle

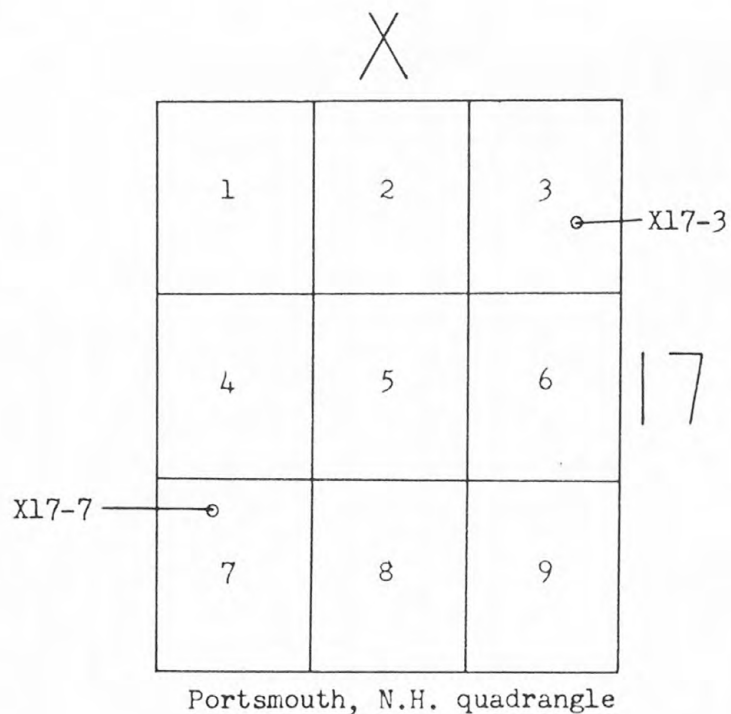
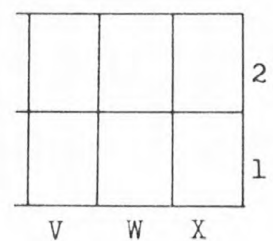


Figure 2. Sketch showing well-location system.

Table 1.--Geologic units in southeastern New Hampshire, and their water-bearing characteristics

| Geologic unit              | Thickness | Character of material                                                                                                                 | Topographic situation                                                                                                 | Water-bearing properties                                                                                                                                                                                                                                                    |
|----------------------------|-----------|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Beach deposits             | --        | Fine to medium sand; cobbles and stones larger than 1 mm, water-worn.                                                                 | Modern beaches along coastline.                                                                                       | Relatively permeable but generally contain only a few feet of fresh water over salt or brackish water. May yield a few gpm at places, but heavy pumping produces salt water.                                                                                                |
| Alluvium                   | --        | Stratified sand and silt; contains a few cobbles and small boulders.                                                                  | Stream channels and floodplains.                                                                                      | Probably moderately permeable and saturated with water at many places, but generally not tapped by wells.                                                                                                                                                                   |
| Swamp deposits             | 0 - 20±   | Silt, sand, some gravel, and organic matter.                                                                                          | Poorly drained areas, depressions, and lowlands.                                                                      | Not tapped by wells.                                                                                                                                                                                                                                                        |
| Outwash and shore deposits | 0 - 50±   | Stratified fine to coarse sand and fine gravel; contain pebbles and cobbles at places.                                                | Relatively extensive outwash plains in inland parts of the area; thin terraces and old shoreline deposits near coast. | Moderately permeable. Where saturated thickness is sufficient, supply water for domestic and farm wells and may yield up to 100 gpm at places.                                                                                                                              |
| Marine deposits            | 0 - 75±   | Clay, silt, and some sand; commonly laminated, but massive in places.                                                                 | Stream valleys and lowland areas.                                                                                     | Relatively impermeable. Rarely yield water to wells, but overlie water-bearing deposits at places, creating artesian conditions.                                                                                                                                            |
| Ice-contact deposits       | 0 - 190±  | Stratified sand, gravel, cobbles and some boulders; contain silt and clay lenses in places; cross bedding and deltaic bedding common. | Relatively flat, elongate plains, and terraces along hillsides; also irregular hills and mounds.                      | Generally have large permeability but locally may have relatively small permeability. Furnish water for most of large public supply systems in the area. Yields of about 700 gpm are available at many places, where the saturated thickness is greater than about 50 feet. |
| Till                       | 0 - 225±  | Unsorted clay, silt, sand, gravel, cobbles, and boulders, moderately to highly compact; largely silt and sand at most places.         | Irregular rolling surface in ground moraine; rounded hills in drumlins.                                               | Generally has low permeability. At some places where thicker than 10 to 15 feet yields sufficient water to dug wells for domestic use, but many wells go dry during long droughts.                                                                                          |
| Bedrock                    | Unknown   | Fractured igneous and metamorphic rocks; dense.                                                                                       | Irregular surface underlying unconsolidated deposits. Outcrops on hills and ridges.                                   | Contains water in cracks. Yields small to moderate quantities of water from drilled wells.                                                                                                                                                                                  |

Table 2.--Records of selected wells and test holes in southeastern New Hampshire

Well no: For explanation of well-numbering system, see text.

Location: For explanation of well-location system, see text.

Owner or user: Name of present owner or agency responsible for installation or operation of well.

Year completed: Year when well was completed, if known.

Wells completed prior to 1900 are not specifically dated unless exact year is known.

Altitude: Altitude expressed in feet and tenths, or in feet, tenths, and hundredths are instrumentally determined; those in whole feet are interpolated from topographic maps. Datum is mean sea level.

Depth: Depths expressed in feet and tenths are measured; those in whole feet are reported. Depths are below land-surface datum.

Type of well and diameter of well: Dg, dug; Dn, driven; Dr, drilled, Dg-Dr, dug and drilled.

Water-bearing material: For explanation of geologic units from which water is drawn, see table 1 and accompanying text.

Water level: Water levels expressed in feet and tenths, or in feet, tenths, and hundredths are measured; those in whole feet are reported. Depths are below land-surface datum, except when preceded by + indicating they are above land-surface datum.

Type of pump: C, centrifugal pump; F, force pump; H, hand drawn; J, jet pump; L, lift pump; S, suction; Sb, submersible pump; T, turbine pump.

Use: C, use in cemetery; D, domestic or domestic and farm; I, Industrial or commercial; Ir, irrigation; O, well installed as an observation or test well; PS, public supply; S, use for stock only; T, test hole or test well, now abandoned and casing removed; U, unused.

Remarks: Other available data are indicated as follows: C, chemical analysis in table 6; D, destroyed; dd, drawdown; gpm, gallons per minute; L, log in table 4; T, temperature in degrees Fahrenheit; W, record of water-level fluctuations in table 5.

| Well no. | Location: | Owner or user | Year completed: | Altitude: of land-surface datum (feet) | Depth: (feet) | Type of well: | Diameter: (inches) | Water-bearing material: Character | Geologic unit | Water level: Depth (feet) | Date | Type of pump | Use | Remarks |
|----------|-----------|---------------|-----------------|----------------------------------------|---------------|---------------|--------------------|-----------------------------------|---------------|---------------------------|------|--------------|-----|---------|
|----------|-----------|---------------|-----------------|----------------------------------------|---------------|---------------|--------------------|-----------------------------------|---------------|---------------------------|------|--------------|-----|---------|

## ROCKINGHAM COUNTY

## ATKINSON

|   |         |                     |        |       |        |      |      |                   |                        |         |            |        |     |                                   |
|---|---------|---------------------|--------|-------|--------|------|------|-------------------|------------------------|---------|------------|--------|-----|-----------------------------------|
| 1 | : U15-3 | : George T. Pentico | : 1900 | : 150 | : 16.3 | : Dg | : 36 | : Sand and gravel | : Ice-contact deposits | : 14.25 | : 10-22-56 | : None | : U |                                   |
| 2 | : U15-3 | : Herbert Horne     | : 1900 | : 297 | : 23.3 | : Dg | : 36 | : -               | : Till                 | : 12.30 | : 10-22-56 | : S    | : D | : Used for auxiliary supply only. |
| 3 | : U15-3 | : Edmund Little     | : 1953 | : 293 | : 300  | : Dr | : 6  | : -               | : Bedrock              | : -     | : -        | : Sb   | : D |                                   |
| 4 | : U15-6 | : Merle R. Ashford  | : 1956 | : 120 | : 16.0 | : Dg | : 24 | : -               | : Till                 | : 8.77  | : 10-22-56 | : S    | : D |                                   |

## BRENTWOOD

|    |         |                                   |        |       |        |      |      |                        |                              |         |            |     |     |                         |
|----|---------|-----------------------------------|--------|-------|--------|------|------|------------------------|------------------------------|---------|------------|-----|-----|-------------------------|
| 1  | : V17-8 | : Rockingham County Farm          | : 1948 | : 140 | : 40.5 | : Dr | : 10 | : Sand                 | : Ice-contact deposits       | : 5     | : -48      | : C | : D | : L. C. T 55.           |
| 2  | : V16-3 | : Alfred Spaulding                | : 1900 | : 105 | : 23.0 | : Dg | : 36 | : Sand, silt, and clay | : Marine deposits            | : 20.60 | : 10-4-56  | : L | : U | : W.                    |
| 3  | : V16-3 | : John B. Pierce                  | : 1900 | : 85  | : 11.7 | : Dg | : 48 | : do.                  | : do.                        | : 8.19  | : 10-5-55  | : S | : D |                         |
| 4  | : V16-2 | : C. A. Parker                    | : 1900 | : 145 | : 13.5 | : Dg | : 36 | : Sand                 | : Outwash and shore deposits | : 8.91  | : 10-5-55  | : S | : D |                         |
| 5  | : V16-3 | : Harry Coe                       | : 1900 | : 210 | : 16.7 | : Dg | : 36 | : -                    | : Till                       | : 12.23 | : 10-5-55  | : S | : D |                         |
| 6  | : V16-3 | : John W. Stevens                 | : 1949 | : 210 | : 168  | : Dr | : 6  | : -                    | : Bedrock                    | : -     | : -        | : J | : I |                         |
| 7  | : V16-2 | : N. H. State Fish and Game Dept. | : 1950 | : 118 | : 250  | : Dr | : 8  | : -                    | : do.                        | : 25    | : -50      | : J | : D |                         |
| 8  | : V16-3 | : Alfred Spaulding                | : 1952 | : 95  | : 15.5 | : Dg | : 48 | : Sand                 | : Ice-contact deposits       | : 2.19  | : 12-20-55 | : S | : D |                         |
| 9  | : V16-3 | : John Swasey                     | : 1900 | : 120 | : 45   | : Dg | : 36 | : Sand and gravel      | : do.                        | : 40    | : -55      | : F | : D |                         |
| 10 | : V16-3 | : Grant A. Gallagher              | : 1954 | : 147 | : 84   | : Dr | : 8  | : -                    | : Bedrock                    | : -     | : -        | : J | : D | : L.                    |
| 11 | : V17-8 | : K. C. Spaulding                 | : 1900 | : 157 | : 11.7 | : Dg | : 40 | : Sand                 | : Ice-contact deposits       | : 1.85  | : 12-20-55 | : F | : D | : T 47.                 |
| 12 | : V17-9 | : Thyng's Poultry Farm            | : 1945 | : 162 | : 148  | : Dr | : 6  | : -                    | : Bedrock                    | : 38    | : -45      | : F | : D | : Reported yield 8 gpm. |
| 13 | : V17-9 | : George O. Sanborn               | : 1915 | : 147 | : 31.0 | : Dg | : 36 | : Sand and gravel      | : Ice-contact deposits       | : 21.30 | : 12-20-55 | : S | : D |                         |

Table 2.--Records of selected wells and test holes in southeastern New Hampshire--Continued

| Well no.                      | Location: | Owner or user        | Year completed: | Altitude of land surface datum (feet): | Depth (feet): | Type of well: | Diameter of well (inches): | Water-bearing material Character: | Geologic unit:             | Water level Depth: | Date:    | Type of pump: | Use:  | Remarks                                               |
|-------------------------------|-----------|----------------------|-----------------|----------------------------------------|---------------|---------------|----------------------------|-----------------------------------|----------------------------|--------------------|----------|---------------|-------|-------------------------------------------------------|
| ROCKINGHAM COUNTY (Continued) |           |                      |                 |                                        |               |               |                            |                                   |                            |                    |          |               |       |                                                       |
| BRENTWOOD (Continued)         |           |                      |                 |                                        |               |               |                            |                                   |                            |                    |          |               |       |                                                       |
| 14                            | V16-3     | M. Sorokin           | 1951            | 130                                    | 110           | Dr            | 6                          | -                                 | Bedrock                    | 45                 | -51      | J             | D     | Reported yield 4 gpm.                                 |
| 15                            | V16-2     | William Bartlett     | 1935            | 145                                    | 10.5          | Dg            | 24                         | Sand                              | Outwash and shore deposits | 9.38               | 8-9-56   | S             | D, Ir | Greenhouse irrigation.                                |
| 16                            | V16-3     | U. S. Geol. Survey   | 1956            | 100                                    | 24.0          | Dr            | 4                          | -                                 | -                          | -                  | -        | None          | T     | L.                                                    |
| 17                            | V16-2     | do.                  | 1956            | 120                                    | 22.0          | Dr            | 4                          | -                                 | -                          | -                  | -        | None          | T     | L.                                                    |
| EAST KINGSTON                 |           |                      |                 |                                        |               |               |                            |                                   |                            |                    |          |               |       |                                                       |
| 1                             | V16-6     | Ed Stevens           | 1900            | 125                                    | 14.3          | Dg            | 30                         | -                                 | Till                       | 11.90              | 10-25-55 | None          | U     |                                                       |
| 2                             | V16-6     | Alcide E. Miron      | 1900            | 150                                    | 18.3          | Dg            | 36                         | -                                 | do.                        | 11.09              | 12-22-55 | S             | D     | Used as auxiliary supply only. Dry in droughts.       |
| 3                             | V16-6     | do.                  | 1947            | 148                                    | 86            | Dr            | 6                          | -                                 | Bedrock                    | 20                 | -47      | J             | D     | L.                                                    |
| 4                             | V16-6     | Fred Montrose        | 1940            | 160                                    | 62            | Dr            | 6                          | -                                 | do.                        | -                  | -        | F             | D     | L.                                                    |
| 5                             | V16-9     | M. G. and N. W. Bean | 1952            | 140                                    | 103           | Dr            | 8                          | -                                 | do.                        | 5                  | -52      | J             | D     | L. Reported yield 13 gpm.                             |
| 6                             | V16-9     | do.                  | 1950            | 130                                    | 12.3          | Dg            | 24                         | -                                 | Till                       | 5.60               | 1-6-56   | None          | D     | Used as auxiliary supply only.                        |
| 7                             | W16-4     | Tilton Bros.         | 1931            | 192                                    | 194           | Dr            | 6                          | -                                 | Bedrock                    | -                  | -        | J             | D     | L. Reported yield 15 gpm.                             |
| 8                             | V16-6     | Frank W. Lee         | 1927            | 152                                    | 122           | Dr            | 8                          | -                                 | do.                        | -                  | -        | S             | D     | L. Reported yield 20 gpm.                             |
| 9                             | W16-7     | Andrew Iamele        | 1955            | 150                                    | 65            | Dr            | 6                          | -                                 | do.                        | 11                 | -55      | S             | D     | L. Reported yield 7½ gpm.                             |
| EPPING                        |           |                      |                 |                                        |               |               |                            |                                   |                            |                    |          |               |       |                                                       |
| 1                             | V17-8     | R. C. Browne         | 1955            | 130                                    | 9.7           | Dg            | 40                         | Sand                              | Outwash and shore deposits | 8.14               | 9-27-55  | None          | U     |                                                       |
| 2                             | V17-7     | Town of Epping       | 1950            | 145                                    | 64            | Dr            | 24                         | Sand and gravel                   | Ice-contact deposits       | Flowing            | -50      | T             | FS    | L. Reported yield 150 gpm.                            |
| 3                             | V17-5     | Joseph T. Burley     | 1900            | 160                                    | 15.5          | Dg            | 32                         | -                                 | Till                       | 12.39              | 12-20-55 | None          | U     |                                                       |
| 4                             | V17-5     | U. S. Geol. Survey   | 1956            | 150                                    | 44.0          | Dr            | 4                          | -                                 | -                          | -                  | -        | None          | T     | L.                                                    |
| 5                             | V17-6     | do.                  | 1956            | 95                                     | 20.0          | Dr            | 4                          | -                                 | -                          | -                  | -        | None          | T     | L.                                                    |
| EXETER                        |           |                      |                 |                                        |               |               |                            |                                   |                            |                    |          |               |       |                                                       |
| 1                             | W16-3     | C. A. Hall           | 1900            | 123                                    | 28.5          | Dg            | 48                         | Sand and gravel                   | Ice-contact deposits       | 19.03              | 12-8-53  | S             | D     | T 51.                                                 |
| 2                             | W16-2     | Town of Exeter       | 1951            | 35                                     | 60.0          | Dr            | 24                         | Sand                              | do.                        | 8.5                | -51      | T             | FS    | C, L, T 52. Reported yield 500 gpm.                   |
| 3                             | W17-7     | Harry Gold           | 1900            | 145                                    | 16.0          | Dg            | 36                         | do.                               | Outwash and shore deposits | 14.54              | 8-5-55   | None          | U     |                                                       |
| 4                             | W17-7     | John Wentworth       | 1945            | 168                                    | 29.3          | Dg            | 36                         | -                                 | Till                       | 21.69              | 8-3-55   | S             | D     |                                                       |
| 5                             | W17-7     | F. L. Wentworth      | 1928            | 170                                    | 170           | Dr            | 6                          | -                                 | Bedrock                    | -                  | -        | F             | D     | L. Reported yield 5½ gpm.                             |
| 6                             | W17-7     | Frank Cronin         | 1800            | 120                                    | 7.5           | Dg            | 36                         | -                                 | Till                       | 5.82               | 9-21-55  | None          | U     |                                                       |
| 7                             | W17-8     | G. C. Herrick        | 1955            | 42                                     | 14.0          | Dg            | 48                         | Sand                              | Ice-contact deposits       | 0.00               | 5-8-56   | S             | D     |                                                       |
| 8                             | W16-1     | Exeter Brass Works   | 1890            | 65                                     | 150           | Dr            | 8                          | -                                 | Bedrock                    | -                  | -        | None          | U     | L. Reported yield 10 gpm.                             |
| 9                             | W16-1     | Robert Ellison       | 1939            | 65                                     | 43            | Dr            | 6                          | -                                 | do.                        | 15                 | -39      | F             | D     | L. Reported yield 13 gpm. Additional use, greenhouse. |
| 10                            | W16-1     | J. A. Grover         | 1931            | 103                                    | 110           | Dr            | 6                          | -                                 | do.                        | 8.75               | 5-8-56   | J             | D     | L. Reported yield 5½ gpm. Drilled in former dug well. |

Table 2.--Records of selected wells and test holes in southeastern New Hampshire--Continued

| Well no.                      | Location | Owner or user           | Year completed | Altitude of land surface datum (feet) | Depth (feet) | Type of well | Diameter of well (inches) | Water-bearing material Character | Geologic unit                    | Water level Depth | Date     | Type of pump | Use  | Remarks                                            |                           |
|-------------------------------|----------|-------------------------|----------------|---------------------------------------|--------------|--------------|---------------------------|----------------------------------|----------------------------------|-------------------|----------|--------------|------|----------------------------------------------------|---------------------------|
| ROCKINGHAM COUNTY (Continued) |          |                         |                |                                       |              |              |                           |                                  |                                  |                   |          |              |      |                                                    |                           |
| EXETER (Continued)            |          |                         |                |                                       |              |              |                           |                                  |                                  |                   |          |              |      |                                                    |                           |
| 11                            | W16-1    | Chester Simpson         | 1945           | 150                                   | 140          | Dr           | 6                         | -                                | Bedrock                          | 28                | -45      | J            | D    | L. Reported yield 3½ gpm. Additional use, poultry. |                           |
| 12                            | W16-1    | Carroll Dolliff         | 1955           | 95                                    | 12.3         | Dg           | 24                        | -                                | Till                             | 2.43              | 5-17-56  | S            | D    |                                                    |                           |
| 13                            | W16-2    | Town of Exeter          | 1955           | 30                                    | 52           | Dn           | 2                         | Sand and gravel                  | Ice-contact deposits             | 11.18             | 5-18-56  | None         | O    | W.                                                 |                           |
| 14                            | W16-2    | Fred Rooney             | 1931           | 97                                    | 22.0         | Dg           | 24                        | Sand                             | Outwash and shore deposits       | 2.30              | 5-18-56  | S            | U    |                                                    |                           |
| 15                            | W16-2    | Town of Exeter          | 1956           | 30                                    | 60           | Dr           | 8                         | Sand and gravel                  | Ice-contact deposits             | 11.54             | 11-13-56 | None         | T    | L. Reported yield 575 gpm. T 49.                   |                           |
| 16                            | W16-3    | Henry Phinney           | 1955           | 80                                    | 49           | Dr           | 6                         | -                                | Bedrock                          | Flowing           | 5-       | -55          | None | D                                                  | Pump not installed, 9-55. |
| 17                            | W16-2    | Town of Exeter          | 1955           | 30                                    | 86.0         | Dn           | 2                         | -                                | -                                | -                 | -        | None         | T    | L.                                                 |                           |
| 18                            | W16-2    | do.                     | 1955           | 30                                    | 52.0         | Dn           | 2                         | Sand and gravel                  | Ice-contact deposits             | 9                 | -55      | None         | T    | L. Reported yield 40 gpm.                          |                           |
| 19                            | W16-3    | do.                     | 1955           | 105                                   | 23.0         | Dn           | 2                         | -                                | -                                | -                 | -        | None         | T    | L.                                                 |                           |
| 20                            | W16-3    | do.                     | 1955           | 70                                    | 32.0         | Dn           | 2                         | Sand and gravel                  | Ice-contact deposits             | 9.4               | -55      | None         | T    | L. Reported yield 15 gpm.                          |                           |
| 21                            | W16-2    | do.                     | 1955           | 63                                    | 30.0         | Dn           | 2                         | do.                              | do.                              | 4                 | -55      | None         | T    | L. Reported yield 13 gpm.                          |                           |
| 22                            | W16-3    | do.                     | 1955           | 95                                    | 24.0         | Dn           | 2                         | do.                              | do.                              | 3.8               | -55      | None         | T    | L.                                                 |                           |
| 23                            | W16-2    | do.                     | 1955           | 43                                    | 25.0         | Dn           | 2                         | do.                              | do.                              | 7                 | -55      | None         | T    | L.                                                 |                           |
| 24                            | W16-2    | do.                     | 1955           | 25                                    | 62.0         | Dn           | 2                         | do.                              | do.                              | 6.8               | -55      | None         | T    | L.                                                 |                           |
| 25                            | W16-2    | do.                     | 1955           | 38                                    | 28.0         | Dn           | 2                         | -                                | -                                | -                 | -        | None         | T    | L.                                                 |                           |
| 26                            | W16-2    | do.                     | 1956           | 33-                                   | 30.5-        | Dn           | 2                         | -                                | -                                | -                 | -        | None         | T    | L.                                                 |                           |
| 28                            |          |                         |                | 40                                    | 75           |              |                           |                                  |                                  |                   |          |              |      |                                                    |                           |
| GREENLAND                     |          |                         |                |                                       |              |              |                           |                                  |                                  |                   |          |              |      |                                                    |                           |
| 1                             | X17-8    | City of Portsmouth      | 1944           | 55                                    | 60           | Dr           | 24                        | Sand and gravel                  | Ice-contact deposits             | 12                | -44      | T            | PS   | C, T 49. Reported yield 416 gpm.                   |                           |
| 2                             | X17-8    | Robert Crothers         | 1900           | 70                                    | 39.7         | Dg           | 40                        | do.                              | do.                              | 37.40             | 1- 8-54  | F            | D, O | W.                                                 |                           |
| 3                             | X17-5    | Portsmouth Country Club | 1910           | 40                                    | 10.5         | Dg           | 60                        | Sand                             | Outwash and shore deposits       | 1.95              | 1- 4-54  | None         | U    |                                                    |                           |
| 4                             | X17-8    | D. F. Yeaton            | 1900           | 85                                    | 25           | Dg           | 36                        | Sand and gravel                  | Ice-contact deposits             | 14.00             | 4-13-56  | S            | D    |                                                    |                           |
| 5                             | X17-8    | do.                     | 1953           | 85                                    | 95           | Dr           | 6                         | -                                | Bedrock                          | 21                | -53      | J            | Ir   | L. Greenhouse irrigation. Reported yield 15 gpm.   |                           |
| 6                             | X17-8    | Kenneth F. Fernald      | 1937           | 107                                   | 67           | Dr           | 6                         | Sand and gravel                  | Ice-contact deposits             | -                 | -        | F            | D    | L. Reported yield 30 gpm.                          |                           |
| 7                             | X17-8    | Charles P. Barnes       | 1937           | 105                                   | 82           | Dr           | 6                         | -                                | Bedrock                          | -                 | -        | F            | D    | L. Reported yield 10 gpm.                          |                           |
| 8                             | X17-8    | Paul R. McAdams         | 1937           | 100                                   | 63           | Dr           | 6                         | Sand and gravel                  | Ice-contact deposits             | 33                | -37      | F            | D    | L. Reported yield 38 gpm.                          |                           |
| 9                             | X17-7    | L. R. Hazzard           | 1924           | 95                                    | 90           | Dr           | 6                         | do.                              | Bedrock and ice-contact deposits | -                 | -        | F            | Ir   | L. Domestic garden irrigation.                     |                           |
| 10                            | X17-7    | Stephen S. Evans        | 1938           | 60                                    | 110          | Dr           | 6                         | -                                | Bedrock                          | -                 | -        | F            | D    | L. Reported yield 12 gpm.                          |                           |
| 11                            | X17-4    | F. W. Trueman           | 1944           | 90                                    | 90           | Dr           | 6                         | -                                | do.                              | 20                | -44      | J            | D    | L. Reported yield 4 gpm.                           |                           |
| 12                            | X17-8,   | Corps of Engineers      | 1951           | 60-                                   | 43.5-        | Dr           | 8                         | -                                | -                                | -                 | -        | None         | T    | L.                                                 |                           |
| 13                            | 7        |                         |                | 110                                   | 47           |              |                           |                                  |                                  |                   |          |              |      |                                                    |                           |

Table 2.--Records of selected wells and test holes in southeastern New Hampshire--Continued

| Well no. | Location | Owner or user | Year completed | Altitude of land surface datum (feet) | Depth (feet) | Type of well | Diameter of well (inches) | Water-bearing material Character | Geologic unit | Water level Depth | Water level Date | Type of pump | Use | Remarks |
|----------|----------|---------------|----------------|---------------------------------------|--------------|--------------|---------------------------|----------------------------------|---------------|-------------------|------------------|--------------|-----|---------|
|----------|----------|---------------|----------------|---------------------------------------|--------------|--------------|---------------------------|----------------------------------|---------------|-------------------|------------------|--------------|-----|---------|

## ROCKINGHAM COUNTY (Continued)

## GREENLAND (Continued)

|     |       |                       |        |       |        |      |      |                   |                        |      |       |        |     |                             |
|-----|-------|-----------------------|--------|-------|--------|------|------|-------------------|------------------------|------|-------|--------|-----|-----------------------------|
| 14- | X17-7 | : Corps of Engineers  | : 1951 | : 60- | : 11-  | : Dn | : 2  | : -               | : -                    | : -  | : -   | : None | : T | : L.                        |
| 19  | : 8   | :                     | :      | : 95  | : 48   | :    | :    | :                 | :                      | :    | :     | :      | :   | :                           |
| 20  | X17-8 | : Ralph D. Fisher and | : 1942 | : 60  | : -    | : Dn | : 2½ | : -               | : -                    | : -  | : -   | : None | : T | : L.                        |
|     | :     | : City of Portsmouth: | :      | :     | :      | :    | :    | :                 | :                      | :    | :     | :      | :   | :                           |
| 21  | X17-8 | : City of Portsmouth  | : 1942 | : 50  | : 46.4 | : Dn | : 2½ | : Sand and gravel | : Ice-contact deposits | : 17 | : -42 | : None | : T | : L. Reported yield 66 gpm. |
| 22  | X17-8 | : Edwin Brackett and  | : 1942 | : 50  | : 36.0 | : Dn | : 2½ | : do.             | : do.                  | : 16 | : -42 | : None | : T | : L. Reported yield 30 gpm. |
|     | :     | : City of Portsmouth: | :      | :     | :      | :    | :    | :                 | :                      | :    | :     | :      | :   | :                           |
| 23  | X17-7 | : Myra R. Brown and   | : 1942 | : 45  | : 47.9 | : Dn | : 2½ | : do.             | : do.                  | : 11 | : -42 | : None | : T | : L. Reported yield 66 gpm. |
|     | :     | : City of Portsmouth: | :      | :     | :      | :    | :    | :                 | :                      | :    | :     | :      | :   | :                           |
| 24- | X17-7 | : City of Portsmouth  | : 1942 | : 18- | : 18.4 | : Dn | : 2½ | : -               | : -                    | : -  | : -   | : None | : T | : L.                        |
| 28  | :     | :                     | :      | : 53  | : 40.8 | :    | :    | :                 | :                      | :    | :     | :      | :   | :                           |

## HAMPTON

|    |         |                       |        |       |        |      |      |                   |                        |         |            |        |      |                                       |
|----|---------|-----------------------|--------|-------|--------|------|------|-------------------|------------------------|---------|------------|--------|------|---------------------------------------|
| 1  | : W16-3 | : Charles Mathews     | : 1900 | : 142 | : 28.0 | : Dg | : 42 | : -               | : Till                 | : 18.82 | : 12- 8-53 | : S    | : U  | : T 51, W.                            |
| 2  | : X16-5 | : Otis Garland        | : 1900 | : 47  | : 30.0 | : Dg | : 36 | : Sand and gravel | : Ice-contact deposits | : 27.95 | : 12-11-53 | : L    | : U  | : T 51, W.                            |
|    | :       | :                     | :      | :     | :      | :    | :    | :                 | :                      | :       | :          | :      | :    | :                                     |
| 3  | : X16-5 | : Hampton Water Works | : 1937 | : 75  | : 54   | : Dr | : 18 | : do.             | : do.                  | : 8     | : -37      | : T    | : PS | : C, L. Reported yield 460 gpm. T 52. |
| 4  | : X16-1 | : Mrs. O. D. Colvin   | : 1900 | : 100 | : 15.0 | : Dg | : 36 | : -               | : Till                 | : 5.89  | : 4-11-56  | : S    | : D  | :                                     |
| 5  | : X16-4 | : Robert F. Walker    | : 1952 | : 60  | : 32   | : Dg | : 42 | : Sand            | : Ice-contact deposits | : 7.04  | : 4-12-56  | : S    | : D  | :                                     |
| 6  | : X16-5 | : Hampton Water Works | : 1956 | : 75  | : 45.0 | : Dn | : 2½ | : Sand and gravel | : do.                  | : 1.77  | : 4-11-56  | : None | : O  | : Reported yield 100 gpm.             |
|    | :       | :                     | :      | :     | :      | :    | :    | :                 | :                      | :       | :          | :      | :    | :                                     |
| 7  | : X16-5 | : do.                 | : 1950 | : 45  | : 54   | : Dr | : 36 | : do.             | : do.                  | : 2     | : -50      | : T    | : PS | : L. Reported yield 720 gpm.          |
| 8  | : X16-4 | : Godfrey Dearbon     | : 1926 | : 85  | : 19.0 | : Dg | : 24 | : do.             | : do.                  | : 4.05  | : 4-17-56  | : S    | : D  | :                                     |
| 9  | : X16-4 | : Ernest Woodburn     | : 1900 | : 60  | : 14.0 | : Dg | : 24 | : -               | : Till                 | : 4.18  | : 4-19-56  | : S    | : D  | :                                     |
| 10 | : X16-3 | : Deborah G. Bryer    | : 1937 | : 125 | : 160  | : Dr | : 6  | : -               | : Bedrock              | : 36    | : -37      | : F    | : D  | : L. Reported yield 15 gpm.           |
| 11 | : X16-1 | : Edwin L. Batchelder | : 1940 | : 70  | : 232  | : Dr | : 6  | : -               | : do.                  | : 11    | : -40      | : T    | : D  | : L. Reported yield 4 gpm.            |
| 12 | : X16-5 | : Gordon Yeaton       | : 1913 | : 77  | : 90   | : Dr | : 6  | : -               | : do.                  | : 20    | : -13      | : J    | : D  | : L. Reported yield 5½ gpm.           |

## HAMPTON FALLS

|   |         |                      |        |       |        |      |      |                   |                              |         |            |     |     |                             |
|---|---------|----------------------|--------|-------|--------|------|------|-------------------|------------------------------|---------|------------|-----|-----|-----------------------------|
| 1 | : W16-9 | : J. M. Goodwin      | : 1900 | : 85  | : 8.5  | : Dg | : 48 | : Sand            | : Ice-contact deposits       | : 1.91  | : 12- 4-53 | : S | : D | : T 49, W.                  |
| 2 | : X16-7 | : R. P. Merrill      | : 1945 | : 68  | : 20.0 | : Dg | : 18 | : do.             | : Outwash and shore deposits | : 11.45 | : 4-17-56  | : S | : D | :                           |
|   | :       | :                    | :      | :     | :      | :    | :    | :                 | :                            | :       | :          | :   | :   | :                           |
| 3 | : X16-7 | : E. J. Payne        | : 1955 | : 67  | : 101  | : Dr | : 6  | : -               | : Bedrock                    | : 9     | : -55      | : J | : D | : L. Reported yield 16 gpm. |
| 4 | : W16-6 | : Oscar McKenney     | : 1900 | : 90  | : 25.3 | : Dg | : 28 | : -               | : Till                       | : 4.47  | : 4-19-56  | : S | : U | :                           |
| 5 | : W16-6 | : do.                | : 1951 | : 90  | : 95   | : Dg | : 6  | : -               | : Bedrock                    | : -     | : -        | : J | : D | : L. Reported yield 7½ gpm. |
| 6 | : W16-6 | : Mark Kelly         | : 1900 | : 112 | : 38.2 | : Dg | : 42 | : Sand and gravel | : Ice-contact deposits       | : 21.00 | : 4-17-56  | : F | : D | : W.                        |
|   | :       | :                    | :      | :     | :      | :    | :    | :                 | :                            | :       | :          | :   | :   | :                           |
| 7 | : W16-6 | : Ralph M. Farley    | : 1954 | : 60  | : 120  | : Dr | : 6  | : -               | : Bedrock                    | : 5     | : -54      | : J | : D | : L. Reported yield 25 gpm. |
| 8 | : W16-6 | : Donald Merchant    | : 1955 | : 65  | : 17   | : Dg | : 48 | : Sand and gravel | : Ice-contact deposits       | : 15    | : 8- -55   | : S | : D | : L.                        |
|   | :       | :                    | :      | :     | :      | :    | :    | :                 | :                            | :       | :          | :   | :   | :                           |
| 9 | : W16-3 | : Alfred L. Binnette | : 1900 | : 115 | : 21.0 | : Dg | : 36 | : -               | : Till                       | : 5.65  | : 4-19-56  | : S | : D | :                           |

Table 2.--Records of selected wells and test holes in southeastern New Hampshire--Continued

| Well no.                      | Location: | Owner or user        | Year completed: | Altitude of land surface datum: (feet): | Depth of well: (feet): | Type of well: | Diameter of well: (inches): | Water-bearing material Character | Geologic unit              | Water level Depth | Date     | Type of pump | Use | Remarks                              |
|-------------------------------|-----------|----------------------|-----------------|-----------------------------------------|------------------------|---------------|-----------------------------|----------------------------------|----------------------------|-------------------|----------|--------------|-----|--------------------------------------|
| ROCKINGHAM COUNTY (Continued) |           |                      |                 |                                         |                        |               |                             |                                  |                            |                   |          |              |     |                                      |
| HAMPTON FALLS (Continued)     |           |                      |                 |                                         |                        |               |                             |                                  |                            |                   |          |              |     |                                      |
| 10                            | W16-6     | V. L. Yeaton         | 1947            | 103                                     | 100                    | Dr            | 6                           | -                                | Bedrock                    | 19                | -47      | F            | D   | L. Reported yield 2½ gpm.            |
| 11                            | W16-6     | J. W. Elton          | 1942            | 110                                     | 150                    | Dr            | 6                           | -                                | do.                        | 45                | -42      | J            | D   | L. Reported yield 45 gpm. Additional |
| 12                            | X16-4     | Eugene Whittemore    | 1948            | 65                                      | 140                    | Dr            | 6                           | -                                | do.                        | 13                | -48      | J            | D   | L. Reported yield 25 gpm.            |
| 13                            | X16-7     | C. M. Wellington     | 1948            | 60                                      | 120                    | Dr            | 6                           | -                                | do.                        | 8                 | -48      | F            | D   | L. Reported yield 15 gpm.            |
| 14                            | X16-7     | Nicholas A. Natale   | 1947            | 30                                      | 94                     | Dr            | 6                           | -                                | do.                        | 15                | -47      | J            | D   | L. Reported yield 20 gpm.            |
| 15                            | W16-6     | William H. Coburn    | 1952            | 115                                     | 250                    | Dr            | 6                           | -                                | do.                        | -                 | -        | L            | D   | L. Reported yield 35 gpm.            |
| KENSINGTON                    |           |                      |                 |                                         |                        |               |                             |                                  |                            |                   |          |              |     |                                      |
| 1                             | W16-4     | Gordon Swift         | 1953            | 217                                     | 13.0                   | Dg            | 40                          | -                                | Till                       | 9.56              | 7-13-54  | None         | U   | :                                    |
| 2                             | W16-4     | Betsy J. Monahan     | 1900            | 270                                     | 25.0                   | Dg            | 30                          | -                                | do.                        | 10.52             | 7-13-54  | None         | U   | W.                                   |
| 3                             | W16-5     | J. W. York           | 1953            | 75                                      | 108                    | Dr            | 6                           | -                                | Bedrock                    | -                 | -        | J            | D   | L. Reported yield 6 gpm.             |
| 4                             | W16-5     | F. E. Toothacre      | 1926            | 107                                     | 84                     | Dr            | 6                           | -                                | do.                        | 22                | -26      | J            | D   | L. Reported yield 2½ gpm.            |
| 5                             | W16-4     | Charles Matthews     | 1954            | 225                                     | 120                    | Dr            | 6                           | -                                | Till and bedrock           | 28                | -54      | L            | D   | L. Reported yield 5 gpm.             |
| 6                             | W16-4     | C. R. Hutchinson     | 1952            | 250                                     | 220                    | Dr            | 6                           | -                                | do.                        | 30                | -52      | J            | D   | L. Reported yield 20 gpm.            |
| 7                             | W16-5     | Kensington School    | 1952            | 128                                     | 50                     | Dr            | 6                           | Sand and gravel                  | Ice-contact deposits:      | 17                | -52      | J            | PS  | L. Reported yield 30 gpm.            |
| 8                             | W16-5     | Mrs. Alice E. Bragg  | 1931            | 123                                     | 60                     | Dr            | 6                           | do.                              | Ice-contact deposits:      | -                 | -        | L            | D   | L. Reported yield 20 gpm.            |
| 9                             | W16-4     | Amos S. Gove         | 1900            | 223                                     | 25.0                   | Dg            | 36                          | -                                | Till                       | 7.53              | 5-21-56  | H            | D   | :                                    |
| 10                            | W16-8     | A. Mertinooke        | 1915            | 170                                     | 23.0                   | Dg            | 36                          | -                                | do.                        | 10.95             | 5-21-56  | S            | D   | C. T 52.                             |
| 11                            | W16-8     | Leavitt Brown        | 1910            | 90                                      | 23.5                   | Dg            | 36                          | Sand and gravel                  | Ice-contact deposits:      | 6.15              | 5-21-56  | S            | D   | :                                    |
| KINGSTON                      |           |                      |                 |                                         |                        |               |                             |                                  |                            |                   |          |              |     |                                      |
| 1                             | V16-5     | Warren G. Bakie      | 1900            | 132                                     | 13.0                   | Dg            | 36                          | Sand                             | Outwash and shore deposits | 7.52              | 12-22-55 | S            | D   | :                                    |
| 2                             | V16-6     | Charles F. Jameson   | 1900            | 140                                     | 14.0                   | Dg            | 42                          | -                                | Till                       | 5.45              | 12-22-55 | S            | D   | :                                    |
| 3                             | V16-8     | Elizabeth Nason      | 1900            | 143                                     | 23.8                   | Dg            | 40                          | Sand                             | Outwash and shore deposits | 19.27             | 12-22-55 | S            | D   | :                                    |
| 4                             | V16-6     | Clayton W. Simpson   | 1935            | 250                                     | 164                    | Dr            | 6                           | -                                | Till and bedrock           | -                 | -        | F            | D   | L. Reported yield 7 gpm.             |
| 5                             | V16-5     | Mrs. Andrew V. Simes | 1900            | 130                                     | 12.3                   | Dg            | 36                          | Sand                             | Outwash and shore deposits | 6.47              | 1-6-56   | None         | U   | :                                    |
| 6                             | V16-9     | James M. York        | 1900            | 145                                     | 18.3                   | Dg            | 36                          | -                                | Till                       | 11.81             | 1-6-56   | S            | D   | :                                    |
| 7                             | V16-1     | Richard K. Smith     | 1947            | 122                                     | 9.5                    | Dg            | 24                          | Sand                             | Outwash and shore deposits | 4.16              | 1-20-56  | S            | D   | :                                    |
| 8                             | V16-8     | Farwell Estate       | 1900            | 187                                     | 16.0                   | Dg            | 36                          | -                                | Till                       | 6.30              | 1-20-56  | None         | U   | :                                    |
| 9                             | V16-5     | Nathan T. Battles    | 1952            | 133                                     | 127                    | Dr            | 6                           | -                                | Bedrock                    | 8                 | -52      | J            | D   | L.                                   |
| 10                            | V16-5     | U. S. Geol. Survey   | 1956            | 135                                     | 17.2                   | Dn            | 1                           | Sand                             | Outwash and shore deposits | 11.57             | 5-17-56  | None         | O   | W.                                   |
| 11                            | V16-5     | Town of Kingston     | 1900            | 133                                     | 13.0                   | Dg            | 120                         | do.                              | do.                        | 7.08              | 6-18-56  | L            | PS  | C.                                   |
| 12                            | V16-5     | do.                  | 1900            | 133                                     | 14.0                   | Dg            | 160                         | do.                              | do.                        | 5.27              | 6-18-56  | None         | PS  | Fire protection well. W.             |
| 13                            | V16-5     | F. A. Richardson     | 1900            | 155                                     | 12.5                   | Dg            | 36                          | Sand and gravel                  | Ice-contact deposits:      | 9.66              | 8-9-56   | S            | D   | :                                    |
| 14                            | V16-7     | Clarence H. Page     | 1900            | 155                                     | 15.0                   | Dg            | 36                          | do                               | do.                        | 11.83             | 10-17-56 | S            | D   | :                                    |

Table 2.--Records of selected wells and test holes in southeastern New Hampshire--Continued

| Well no.                      | Location:   | Owner or user              | Year completed: | Altitude of land-surface datum (feet): | Depth (feet): | Type of well: | Diameter of well (inches): | Water-bearing material |                            | Water level |          | Type of pump: | Use: | Remarks                           |
|-------------------------------|-------------|----------------------------|-----------------|----------------------------------------|---------------|---------------|----------------------------|------------------------|----------------------------|-------------|----------|---------------|------|-----------------------------------|
|                               |             |                            |                 |                                        |               |               |                            | Character              | Geologic unit              | Depth       | Date     |               |      |                                   |
| ROCKINGHAM COUNTY (Continued) |             |                            |                 |                                        |               |               |                            |                        |                            |             |          |               |      |                                   |
| KINGSTON (Continued)          |             |                            |                 |                                        |               |               |                            |                        |                            |             |          |               |      |                                   |
| 15                            | V16-7       | Thomas Spinella            | 1946            | 160                                    | 13.0          | Dg            | 24                         | Sand and gravel        | Ice-contact deposits       | 10.34       | 10-17-56 | None          | U    |                                   |
| 16-18                         | V16-5, 6    | U. S. Geol. Survey         | 1956            | 120-130                                | 24.0-49       | Dn            | 4                          | -                      | -                          | -           | -        | None          | T    | L.                                |
| NEWCASTLE                     |             |                            |                 |                                        |               |               |                            |                        |                            |             |          |               |      |                                   |
| 1                             | Y17-4       | Wentworth-by-the Sea       | 1900            | 10                                     | 22.0          | Dg            | 144                        | -                      | Till?                      | 2.95        | 2-10-56  | C             | PS   | Fire protection well.             |
| 2                             | Y17-4       | Thomas McCaffrey           | 1900            | 40                                     | 13.5          | Dg            | 34                         | -                      | Till                       | 7.16        | 2-10-56  | None          | U    |                                   |
| NEWFIELDS                     |             |                            |                 |                                        |               |               |                            |                        |                            |             |          |               |      |                                   |
| 1                             | W17-8       | Town of Newfields          | 1954            | 56                                     | 28            | Dr            | 12                         | Sand and gravel        | Ice-contact deposits       | 17          | -54      | T             | PS   | Reported yield 45 gpm. T 46.      |
| 2                             | W17-9       | J. H. Proctor              | 1950            | 110                                    | 7.2           | Dg            | 24                         | Sand                   | Outwash and shore deposits | 4.65        | 7-21-55  | S             | D    | T 56.                             |
| 3                             | W17-4       | Harry Thompson             | 1900            | 140                                    | 21.5          | Dg            | 36                         | -                      | Till                       | 12.85       | 7-20-55  | None          | U    |                                   |
| 4                             | W17-8       | Eta D. Littlefield         | 1900            | 92                                     | 45.0          | Dg            | 40                         | Sand and gravel        | Ice-contact deposits       | 39.88       | 9-13-55  | L             | U    | C. T 48, W.                       |
| 5                             | W17-8       | Edith Varney-Johnson       | 1945            | 103                                    | 110           | Dr            | 8                          | -                      | Bedrock                    | 34          | -45      | J             | D    | L.                                |
| 6                             | W17-8       | John H. Swart              | 1945            | 40                                     | 125           | Dr            | 6                          | -                      | do.                        | 14          | -45      | J             | D    | L. Reported yield 10 gpm.         |
| NEWINGTON                     |             |                            |                 |                                        |               |               |                            |                        |                            |             |          |               |      |                                   |
| 1                             | X17-1       | Portsmouth Air Force Base  | 1900            | 85                                     | 20.0          | Dg            | 36                         | Sand and gravel        | Ice-contact deposits       | 16.45       | 11-3-53  | None          | U    | D 1954.                           |
| 2                             | X17-4       | G. L. Beals                | 1910            | 75                                     | 21.5          | Dg            | 36                         | -                      | Till                       | 14.40       | 1-4-54   | S             | D    | T 49.                             |
| 3                             | X17-5       | Portsmouth Air Force Base  | 1910            | 40                                     | 11.2          | Dg            | 60                         | Sand                   | Outwash and shore deposits | 3.09        | 1-4-54   | None          | U    | W.                                |
| 4                             | X17-1       | Harold Frink               | 1900            | 70                                     | 12.1          | Dg            | 60                         | -                      | Till                       | 6.70        | 1-8-54   | S             | D    | W.                                |
| 5                             | X17-2       | Simplex Wire and Cable Co. | 1953            | 30                                     | 118           | Dr            | 8                          | -                      | Bedrock                    | -           | -        | T             | I    | Reported yield 75 gpm.            |
| 6                             | X17-2       | do.                        | 1953            | 35                                     | 200           | Dr            | 8                          | -                      | do.                        | -           | -        | T             | I    | Reported yield 28 gpm.            |
| 7                             | X17-2       | Portsmouth Air Force Base  | 1946            | 118                                    | 119.5         | Dr            | 6                          | -                      | do.                        | 25.62       | 1-26-56  | None          | U    | W.                                |
| 8                             | X17-1       | do.                        | 1955            | 20                                     | 414           | Dr            | 8                          | -                      | do.                        | Flowing     | 1-26-56  | T             | PS   | L. Reported yield 35 gpm. Flowing |
| 9                             | X17-1       | do.                        | 1955            | 38                                     | 358           | Dr            | 8                          | -                      | do.                        | 9           | 9-55     | T             | PS   | L. Reported yield 35 gpm.         |
| 10, 11, 12, 26                | X17-5, 4, 1 | Corps of Engineers         | 1951            | 55-80                                  | 31-68         | Dr            | 8                          | -                      | -                          | -           | -        | None          | T    | L.                                |

Table 2.--Records of selected wells and test holes in southeastern New Hampshire--Continued

| Well no.                      | Location: | Owner or user                      | Year completed: | Altitude of land-surface datum (feet): | Depth of well (feet): | Type of well: | Diameter of well (inches): | Water-bearing material Character: | Geologic unit:             | Water level Depth (feet): | Date:   | Type of pump: | Use: | Remarks                                                                               |
|-------------------------------|-----------|------------------------------------|-----------------|----------------------------------------|-----------------------|---------------|----------------------------|-----------------------------------|----------------------------|---------------------------|---------|---------------|------|---------------------------------------------------------------------------------------|
| ROCKINGHAM COUNTY (Continued) |           |                                    |                 |                                        |                       |               |                            |                                   |                            |                           |         |               |      |                                                                                       |
| NEWMARKET                     |           |                                    |                 |                                        |                       |               |                            |                                   |                            |                           |         |               |      |                                                                                       |
| 1                             | W17-5     | R. M. Loisel                       | 1900            | 55                                     | 11.7                  | Dg            | 40                         | Sand                              | Outwash and shore deposits | 6.54                      | 6-17-54 | S             | D    |                                                                                       |
| 2                             | W17-4     | Harry Bergeron                     | 1940            | 128                                    | 57                    | Dn            | 2                          | Sand and gravel                   | Ice-contact deposits       | 44                        | -40     | F             | D    | L. Reported yield 20 gpm.                                                             |
| 3                             | W17-4     | Charles W. Lang                    | 1900            | 110                                    | 20.0                  | Dg            | 36                         | do.                               | do.                        | 16.27                     | 9-13-55 | S             | D    | W.                                                                                    |
| 4                             | W17-5     | Town of Newmarket                  | 1914            | 40                                     | 238                   | Dr            | 6                          | -                                 | Bedrock                    | Flowing                   | -14     | T             | PS   | L. Reported yield 84 gpm.                                                             |
| 5                             | W17-5     | Walter H. Hanson                   | 1900            | 62                                     | 27.0                  | Dg            | 40                         | Sand and gravel                   | Ice-contact deposits       | 19.23                     | 9-13-55 | None          | U    |                                                                                       |
| NEWTON                        |           |                                    |                 |                                        |                       |               |                            |                                   |                            |                           |         |               |      |                                                                                       |
| 1                             | V15-3     | N. H. Dept. of Pub. Wks. and Hgws. | 1900            | 170                                    | 11.0                  | Dg            | 36                         | -                                 | Till                       | 3.45                      | 11-7-55 | None          | U    | W.                                                                                    |
| 2                             | V16-9     | William Emerson                    | 1900            | 135                                    | 17.8                  | Dg            | 36                         | -                                 | do.                        | 10.15                     | 1-6-56  | S             | D    |                                                                                       |
| 3                             | V15-2     | Edwin A. Bean                      | 1900            | 130                                    | 17.5                  | Dg            | 36                         | Sand and gravel                   | Ice-contact deposits       | 10.84                     | 1-20-56 | None          | U    |                                                                                       |
| 4                             | V15-2     | Nichols Poultry Farm, Inc.         | 1900            | 105                                    | 15.3                  | Dg            | 72                         | Sand                              | Outwash and shore deposits | 10.28                     | 1-20-56 | S             | I    |                                                                                       |
| 5                             | V15-2     | E. L. Driscoll                     | -               | 180                                    | 12.2                  | Dg            | 24                         | Sand and gravel                   | Ice-contact deposits       | 6.02                      | 5-18-56 | S             | D    |                                                                                       |
| 6                             | V15-3     | William P. Komulainen              | 1905            | 152                                    | 26.5                  | Dg            | 36                         | do.                               | do.                        | 18.45                     | 5-18-56 | F             | D    |                                                                                       |
| 7                             | V16-8     | E. A. Smith                        | 1900            | 122                                    | 12.5                  | Dg            | 36                         | do.                               | do.                        | 8.79                      | 5-18-56 | S             | D    |                                                                                       |
| NORTH HAMPTON                 |           |                                    |                 |                                        |                       |               |                            |                                   |                            |                           |         |               |      |                                                                                       |
| 1                             | X17-8     | Paul Kelley                        | 1954            | 110                                    | 138                   | Dr            | 8                          | -                                 | Bedrock                    | 20                        | -54     | J             | D    | L. Reported yield 3 gpm.                                                              |
| 2                             | X17-7     | Lora Booker                        | 1900            | 100                                    | 42.3                  | Dg            | 36                         | -                                 | Till                       | 35.31                     | 4-13-56 | L             | D    | Not in use in 1956.                                                                   |
| 3                             | X16-1     | Charles Black                      | 1900            | 70                                     | 23.8                  | Dg            | 36                         | -                                 | do.                        | 17.61                     | 4-12-56 | S             | D    |                                                                                       |
| 4                             | X16-1     | K. D. Bowers                       | 1956            | 105                                    | 105                   | Dr            | 6                          | -                                 | Bedrock                    | 12                        | -56     | J             | D    | L. Reported yield 4 gpm.                                                              |
| 5                             | X16-1     | R. A. Wright                       | 1935            | 100                                    | 32.9                  | Dg            | 24                         | Sand and gravel                   | Ice-contact deposits       | 25.22                     | 4-12-56 | L             | D    |                                                                                       |
| 6                             | X16-2     | Wallace P. Hale                    | 1954            | 122                                    | 100                   | Dr            | 8                          | -                                 | Bedrock                    | 45                        | -54     | J             | D    | L.                                                                                    |
| 7                             | X16-2     | Hampton Water Works                | 1919            | 65                                     | 22                    | Dg            | 240                        | Sand and gravel                   | Ice-contact deposits       | 4.07                      | 4-11-56 | C             | PS   | Reported yield 450 gpm.                                                               |
| 8                             | X16-2     | do.                                | 1919            | 65                                     | 42                    | Dg            | 240                        | do.                               | do.                        | 3.27                      | 4-11-56 | T             | PS   | L. Reported yield 450 gpm; 18-inch casing installed inside 240-inch dug well in 1937. |
| 9                             | X16-2     | Hinkle Property                    | 1900            | 30                                     | 18.5                  | Dg            | 36                         | -                                 | Till                       | 3.11                      | 4-17-56 | S             | D    |                                                                                       |
| 10                            | X16-2     | Mrs. J. Marshall                   | 1953            | 83                                     | 175                   | Dr            | 6                          | -                                 | Bedrock                    | Flowing                   | -53     | J             | D    | L. Reported yield 8 gpm.                                                              |
| 11                            | X16-1     | Mrs. Irving Marsten                | 1948            | 85                                     | 74                    | Dr            | 6                          | Sand and gravel                   | Ice-contact deposits       | 32                        | -48     | F             | D    | L. Reported yield 20 gpm.                                                             |
| 12                            | X16-1     | F. S. Snow                         | 1947            | 95                                     | 179                   | Dr            | 6                          | -                                 | Bedrock                    | 23                        | -47     | J             | D    | L. Reported yield 5½ gpm. T 55.                                                       |
| 13                            | X16-1     | Kenneth S. Ellingwood              | 1947            | 65                                     | 50                    | Dr            | 6                          | -                                 | do.                        | 12                        | -47     | J             | D    | L. Reported yield 6 gpm.                                                              |
| 14                            | X16-1     | Abraham Lampert                    | 1948            | 108                                    | 170                   | Dr            | 6                          | -                                 | do.                        | 26                        | -48     | J             | D    | L. Reported yield 10 gpm. T 48.                                                       |

Table 2.--Records of selected wells and test holes in southeastern New Hampshire--Continued

| Well no.                      | Location: | Owner or user                        | Year completed: | Altitude of land-surface datum (feet): | Depth of well (feet): | Type of well: | Diameter of well (inches): | Water-bearing material Character: | Geologic unit:             | Water level Depth: | Date:    | Type of pump: | Use: | Remarks                                                                                                 |
|-------------------------------|-----------|--------------------------------------|-----------------|----------------------------------------|-----------------------|---------------|----------------------------|-----------------------------------|----------------------------|--------------------|----------|---------------|------|---------------------------------------------------------------------------------------------------------|
| ROCKINGHAM COUNTY (Continued) |           |                                      |                 |                                        |                       |               |                            |                                   |                            |                    |          |               |      |                                                                                                         |
| NORTH HAMPTON (Continued)     |           |                                      |                 |                                        |                       |               |                            |                                   |                            |                    |          |               |      |                                                                                                         |
| 15                            | X16-2     | George R. Chase                      | -               | 85                                     | 72                    | Dr            | 6                          | -                                 | Bedrock                    | 22                 | -        | F             | D    | Not in use in 1956. L. Reported yield 2 gpm.                                                            |
| 16                            | X16-2     | City of Portsmouth                   | 1942            | 85-                                    | 18.2-                 | Dn            | 2½                         | -                                 | -                          | -                  | -        | None          | T    | L.                                                                                                      |
| 21                            |           |                                      |                 | 105                                    | 32.8                  |               |                            |                                   |                            |                    |          |               |      |                                                                                                         |
| PLAISTOW                      |           |                                      |                 |                                        |                       |               |                            |                                   |                            |                    |          |               |      |                                                                                                         |
| 1                             | V15-1     | Gregory B. Stephans                  | 1900            | 125                                    | 21.0                  | Dg            | 36                         | Sand and gravel                   | Ice-contact deposits       | 15.95              | 4-23-54  | S             | D    | C. T 52.                                                                                                |
| 2                             | V15-1     | L. H. Wayne                          | 1900            | 105                                    | 12                    | Dg            | 40                         | Sand                              | Outwash and shore deposits | 5.73               | 11-10-55 | S             | D    |                                                                                                         |
| 3                             | V15-4     | William J. Coulombe                  | 1900            | 95                                     | 24.0                  | Dg            | 40                         | Sand, silt, and clay              | Marine deposits            | 16.28              | 11-15-55 | None          | U    | W. Recorder.                                                                                            |
| 4                             | V15-5     | Willard P. Lombard                   | 1900            | 160                                    | 21.0                  | Dg            | 36                         | do.                               | do.                        | 13.85              | 1-6-56   | None          | U    |                                                                                                         |
| 5                             | V15-5     | Leon Pickard                         | 1917            | 165                                    | 11.2                  | Dg            | 40                         | -                                 | Till                       | 7.29               | 1-6-56   | S             | D    |                                                                                                         |
| 6                             | V15-5     | Wilbur G. Tate                       | 1900            | 285                                    | 24.7                  | Dg            | 38                         | -                                 | do.                        | 5.75               | 1-20-56  | None          | U    |                                                                                                         |
| 7                             | V15-5     | do.                                  | 1947            | 285                                    | 175                   | Dr            | 8                          | -                                 | Bedrock                    | 39                 | -47      | J             | D    | L. Reported yield 7 gpm.                                                                                |
| 8                             | V15-1     | Clara Tilton                         | 1940            | 122                                    | 9.7                   | Dg            | 20                         | Sand                              | Outwash and shore deposits | 3.50               | 1-20-56  | S             | D    |                                                                                                         |
| 9                             | V15-1     | Russel Thomas                        | 1950            | 130                                    | 22                    | Dn            | 1½                         | do.                               | do.                        | 19                 | -52      | S             | D    | C. T 55.                                                                                                |
| 10                            | V15-4     | U. S. Geol. Survey                   | 1956            | 80-                                    | 5.0-                  | Dr            | 4                          | -                                 | -                          | -                  | -        | None          | T    | L.                                                                                                      |
| 14                            | 1         |                                      |                 | 125                                    | 40.0                  |               |                            |                                   |                            |                    |          |               |      |                                                                                                         |
| 15                            | V15-1     | Town of Plaistow                     | 1933            | 95                                     | 25.0                  | Dn            | 2                          | -                                 | -                          | -                  | -        | None          | T    | L.                                                                                                      |
| PORTSMOUTH                    |           |                                      |                 |                                        |                       |               |                            |                                   |                            |                    |          |               |      |                                                                                                         |
| 1                             | X17-5     | City of Portsmouth (Goslin Station)  | 1941            | 64                                     | 50-                   | Dn            | 2½                         | Sand and gravel                   | Ice-contact deposits       | 10-                | 11-      | -53           | C    | PS : Battery of 52 2½-inch wells on 2 pumping systems. D 1955. Reported yield 382 gpm. C.               |
| 2                             | X17-5     | City of Portsmouth (Haven Station)   | 1900            | 64                                     | 60                    | Dr            | 8                          | do.                               | do.                        | 9.2                | 11-      | -53           | C    | PS : Battery of 3 wells on one pumping system. D 1955. Reported yield 455 gpm. Reported dd 1.5 feet. C. |
| 3                             | X17-5     | City of Portsmouth (No. 3)           | 1941            | 68                                     | 55                    | Dr            | 20                         | do.                               | do.                        | 10                 | 11-      | -53           | T    | PS : Reported yield 208 gpm. Reported dd 25 feet.                                                       |
| 4                             | X17-6     | City of Portsmouth (Sherbourne Sta.) | 1850            | 35                                     | 47-                   | Dn            | 2½                         | do.                               | do.                        | 4-                 | 11-      | -53           | C    | PS : Battery of 50 2½-inch wells. Reported yield 364 gpm. New wells driven 1893 and 1940.               |
| 5                             | X17-5     | City of Portsmouth (No. 1)           | 1921            | 50                                     | 70                    | Dr            | 20                         | do.                               | do.                        | 14                 | 11-      | -53           | T    | PS : Reported yield 400 gpm. C.                                                                         |
| 6                             | X17-9     | O. W. Meyers                         | 1948            | 52                                     | 15.5                  | Dg            | 36                         | do.                               | do.                        | 8.75               | 12-2-53  | H             | D    | T 49.                                                                                                   |
| 7                             | X17-5     | Portsmouth Country Club              | 1910            | 40                                     | 10.3                  | Dg            | 60                         | Sand                              | Outwash and shore deposits | 1.95               | 1-13-54  | None          | U    | W.                                                                                                      |
| 8                             | X17-5     | T. P. Conners                        | 1910            | 45                                     | 13.0                  | Dg            | 60                         | do.                               | do.                        | 2.78               | 3-10-54  | S             | D    | W.                                                                                                      |
| 9                             | X17-3     | Public Service Co. of N. H.          | 1949            | 100                                    | 344                   | Dr            | 8                          | -                                 | Bedrock                    | -                  | -        | -             | T    | I : Reported yield 100 gpm. Reported dd 85 feet.                                                        |
| 10                            | X17-3     | do.                                  | 1955            | 100                                    | 300                   | Dr            | 10                         | -                                 | do.                        | -                  | -        | -             | T    | I : Reported yield 75 gpm. Reported dd 85 feet.                                                         |

Table 2.--Records of selected wells and test holes in southeastern New Hampshire--Continued

| Well no. | Location: | Owner or user | Year completed: | Altitude of land-surface datum (feet): | Depth of well (feet): | Type of well: | Diameter of well (inches): | Water-bearing material Character: | Geologic unit: | Water level Depth: | Date: | Type of pump: | Use: | Remarks |
|----------|-----------|---------------|-----------------|----------------------------------------|-----------------------|---------------|----------------------------|-----------------------------------|----------------|--------------------|-------|---------------|------|---------|
|----------|-----------|---------------|-----------------|----------------------------------------|-----------------------|---------------|----------------------------|-----------------------------------|----------------|--------------------|-------|---------------|------|---------|

## ROCKINGHAM COUNTY (Continued)

## PORTSMOUTH (Continued)

|    |       |                           |      |     |      |    |    |                 |                      |      |         |      |    |                            |
|----|-------|---------------------------|------|-----|------|----|----|-----------------|----------------------|------|---------|------|----|----------------------------|
| 11 | X17-8 | Louis Ziedman             | 1900 | 62  | 13.8 | Dg | 36 | Sand and gravel | Ice-contact deposits | 6.68 | 2-10-56 | S    | D  |                            |
| 12 | X17-8 | Long Meadow Inn           | 1948 | 63  | 217  | Dr | 6  | -               | Bedrock              | -    | -       | J    | D  | L. Reported yield 10 gpm.  |
| 13 | X17-5 | Corps of Engineers        | 1951 | 45- | 15-  | Dr | 8  | -               | -                    | -    | -       | None | T  | L.                         |
| 16 |       |                           |      | 75  | 70.5 |    |    |                 |                      |      |         |      |    |                            |
| 17 | X17-5 | do.                       | 1951 | 38- | 23-  | Dn | 2  | -               | -                    | -    | -       | None | T  | L.                         |
| 24 | 6     |                           |      | 75  | 46   |    |    |                 |                      |      |         |      |    |                            |
| 25 | X17-5 | Portsmouth Air Force Base | 1955 | 64  | 70   | Dr | 12 | Sand and gravel | Ice-contact deposits | -    | -       | Sb   | PS | L. Reported yield 700 gpm. |
| 26 | X17-9 | City of Portsmouth        | 1942 | 35  | 30   | Dn | 2½ | -               | Till                 | -    | -       | None | T  | L.                         |

## RYE

|    |       |                        |      |     |       |    |    |                      |                      |       |         |      |    |                                        |
|----|-------|------------------------|------|-----|-------|----|----|----------------------|----------------------|-------|---------|------|----|----------------------------------------|
| 1  | X17-8 | Philip Varrell         | 1900 | 108 | 41.2  | Dg | 42 | Sand and gravel      | Ice-contact deposits | 38.51 | 2-11-54 | F    | D  | C. T 50. W.                            |
| 2  | X16-3 | Ernest Moore           | -    | 15  | 12.0  | Dg | 36 | do.                  | do.                  | 8.04  | 7-20-54 | S    | D  |                                        |
| 3  | X17-8 | T. R. Ham              | 1937 | 110 | 159   | Dr | 6  | -                    | Bedrock              | 15    | -37     | J    | D  | L. Reported yield 4½ gpm.              |
| 4  | X16-3 | Tony Remick            | 1953 | 63  | 185   | Dr | 8  | -                    | do.                  | 18    | -53     | J    | D  | L.                                     |
| 5  | X17-9 | Parker Philbrick       | 1955 | 85  | 86    | Dr | 8  | -                    | do.                  | 5     | -55     | J    | D  | L. Reported yield 12 gpm.              |
| 6  | X17-4 | Alfred Bassett         | 1950 | 25  | 60    | Dr | 8  | -                    | do.                  | 10    | -50     | F    | D  | L. Reported yield 14 gpm.              |
| 7  | X17-7 | M. E. Clark            | 1900 | 62  | 12.8  | Dg | 48 | Sand and gravel      | Ice-contact deposits | 6.53  | 2-10-56 | S    | D  | L. Not in use.                         |
| 8  | X17-9 | Ernest Foss            | 1900 | 58  | 22.0  | Dg | 36 | do.                  | do.                  | 16.58 | 2-10-56 | S    | D  |                                        |
| 9  | X17-9 | William Howe           | 1956 | 100 | 80    | Dr | 8  | do.                  | do.                  | 40    | -56     | J    | D  | L. Reported yield 75 gpm.              |
| 10 | X16-2 | Herbert Drake          | 1900 | 80  | 18    | Dg | 36 | -                    | Till?                | 5.44  | 4-12-56 | S    | D  |                                        |
| 11 | X17-9 | Mrs. Irving A. Jenness | 1948 | 85  | 105   | Dr | 8  | -                    | Bedrock              | 35    | -48     | J    | D  | L.                                     |
| 12 | X16-3 | Hampton Water Works    | 1937 | 37  | 22    | Dr | 18 | Sand and gravel      | Ice-contact deposits | -     | -       | T    | PS | L. Not in use. Reported yield 135 gpm. |
| 13 | X16-3 | do.                    | 1937 | 36  | 8.0   | Dn | 2  | -                    | -                    | 0.85  | 4-19-56 | None | O  |                                        |
| 14 | X16-3 | Marshall Hall          | 1900 | 20  | 9.5   | Dg | 96 | Sand, silt, and clay | Marine deposits      | 3.55  | 4-11-56 | None | U  |                                        |
| 15 | X17-9 | Corps of Engineers     | 1951 | 75- | 10.5- | Dn | 2  | -                    | -                    | -     | -       | None | T  | L.                                     |
| 18 | X16-3 |                        |      | 108 | 41    |    |    |                      |                      |       |         |      |    |                                        |
|    | X17-8 |                        |      |     |       |    |    |                      |                      |       |         |      |    |                                        |
| 19 | X17-9 | Warren Richardson      | 1942 | 85  | 37    | Dn | 2½ | Sand and gravel      | Ice-contact deposits | -     | -       | None | T  | L.                                     |
|    |       | City of Portsmouth     |      |     |       |    |    |                      |                      |       |         |      |    |                                        |
| 20 | X16-3 | Abbot Drake            | 1942 | 70  | 53    | Dn | 2½ | do.                  | do.                  | 18    | -42     | None | T  | L.                                     |
|    |       | City of Portsmouth     |      |     |       |    |    |                      |                      |       |         |      |    |                                        |
| 21 | X17-9 | City of Portsmouth     | 1942 | 40  | 30    | Dn | 2½ | -                    | Till                 | -     | -       | None | T  | L.                                     |

Table 2.--Records of selected wells and test holes in southeastern New Hampshire--Continued

| Well no. | Location | Owner or user | Year completed | Altitude of land surface datum (feet) | Depth (feet) | Type of well | Diameter of well (inches) | Water-bearing material Character | Geologic unit | Water level Depth | Date | Type of pump | Use | Remarks |
|----------|----------|---------------|----------------|---------------------------------------|--------------|--------------|---------------------------|----------------------------------|---------------|-------------------|------|--------------|-----|---------|
|----------|----------|---------------|----------------|---------------------------------------|--------------|--------------|---------------------------|----------------------------------|---------------|-------------------|------|--------------|-----|---------|

## ROCKINGHAM COUNTY (Continued)

## SEABROOK

|    |       |                        |      |     |      |    |    |                 |                            |         |         |      |    |                                                                      |
|----|-------|------------------------|------|-----|------|----|----|-----------------|----------------------------|---------|---------|------|----|----------------------------------------------------------------------|
| 1  | W16-9 | Town of Seabrook       | 1956 | 100 | 54   | Dr | 24 | Sand and gravel | Ice-contact deposits       | 5.76    | 4-25-56 | T    | PS | C. L for Seabrook 21 at same location. Reported yield 450 gpm. T 47. |
| 2  | W16-9 | do.                    | 1956 | 105 | 49   | Dr | 24 | do.             | do.                        | 5       | -56     | T    | PS | Reported yield 350 gpm.                                              |
| 3  | W16-9 | L. R. Matthews         | 1930 | 105 | 110  | Dr | 6  | -               | Bedrock                    | 35      | -30     | F    | D  |                                                                      |
| 4  | W16-9 | R. E. Bergeron         | 1952 | 100 | 26.5 | Dg | 36 | Sand and gravel | Ice-contact deposits       | 17.92   | 5- 9-56 | J    | D  |                                                                      |
| 5  | W16-9 | Joseph Neves           | 1900 | 63  | 12.4 | Dg | 30 | -               | Till                       | 3.00    | 5- 9-56 | S    | D  | Not in use in 1956.                                                  |
| 6  | X16-7 | Parkman Clinic         | -    | 45  | 13.3 | Dg | 36 | Sand            | Outwash and shore deposits | 3.93    | 5- 9-56 | S    | D  |                                                                      |
| 7  | X15-1 | Lloyd Property         | 1900 | 63  | 22.0 | Dg | 36 | do.             | do.                        | 16.08   | 4-25-56 | S    | D  |                                                                      |
| 8  | X16-8 | Town of Seabrook       | 1955 | 14  | 15.0 | Dg | 96 | do.             | Beach deposits             | 9.26    | 4-25-56 | None | PS | Fire protection well. Reported yield 60 gpm.                         |
| 9  | X15-1 | Carroll F. Randall     | 1946 | 65  | 150  | Dr | 6  | -               | Bedrock                    | -       | -       | J    | D  | L.                                                                   |
| 10 | X16-7 | T. L. Boyd             | 1930 | 25  | 9.0  | Dg | 18 | Sand            | Outwash and shore deposits | 2.35    | 5- 9-56 | S    | D  |                                                                      |
| 11 | X16-7 | Dearbon Academy Assoc. | 1900 | 58  | 10.8 | Dg | 36 | do.             | do.                        | 7.15    | 5- 9-56 | None | U  | W.                                                                   |
| 12 | W16-9 | Town of Seabrook       | 1955 | 45  | 16.5 | Dn | 24 | -               | -                          | -       | -       | None | T  | L.                                                                   |
| 13 | W16-9 | do.                    | 1955 | 47  | 28.7 | Dn | 24 | -               | -                          | 4       | -55     | None | T  | L.                                                                   |
| 14 | W16-9 | do.                    | 1955 | 50  | 43.0 | Dn | 24 | -               | -                          | +2      | -55     | None | T  | L.                                                                   |
| 15 | W16-9 | do.                    | 1955 | 54  | 45.0 | Dn | 24 | -               | -                          | 1.9     | -55     | None | T  | L.                                                                   |
| 16 | X16-7 | do.                    | 1955 | 45  | 94.3 | Dn | 24 | -               | -                          | 2.8     | -55     | None | T  | L.                                                                   |
| 17 | W16-9 | do.                    | 1955 | 40  | 33.5 | Dn | 24 | -               | -                          | +2.8    | -55     | None | T  | L. Reported natural flow 7 gpm.                                      |
| 18 | X16-7 | do.                    | 1955 | 43  | 37.3 | Dn | 24 | -               | -                          | 9.3     | -55     | None | T  | L.                                                                   |
| 19 | X15-1 | do.                    | 1955 | 48  | 41.5 | Dn | 24 | -               | -                          | 2       | -55     | None | T  | L.                                                                   |
| 20 | X15-1 | do.                    | 1955 | 18  | 53.5 | Dn | 24 | -               | -                          | 4.3     | -55     | None | T  | L.                                                                   |
| 21 | W16-9 | do.                    | 1955 | 100 | 54.8 | Dn | 24 | -               | -                          | 6.7     | -55     | None | T  | L.                                                                   |
| 22 | W16-9 | do.                    | 1955 | 50  | 41.0 | Dn | 24 | -               | -                          | Flowing | -55     | None | T  | L. At same location as Seabrook 1. Reported natural flow 6 gpm.      |
| 23 | X15-1 | do.                    | 1955 | 60  | 61.3 | Dn | 24 | -               | -                          | 2       | -55     | None | T  | L.                                                                   |
| 24 | W16-9 | do.                    | 1955 | 65  | 38.9 | Dn | 24 | -               | -                          | +4      | -55     | None | T  | L.                                                                   |
| 25 | W16-9 | do.                    | 1955 | 70  | 52.7 | Dn | 24 | -               | -                          | 2.8     | -55     | None | T  | L.                                                                   |

## SOUTH HAMPTON

|   |       |                 |      |     |      |    |    |                 |                            |         |         |      |   |                                 |
|---|-------|-----------------|------|-----|------|----|----|-----------------|----------------------------|---------|---------|------|---|---------------------------------|
| 1 | W16-7 | Guy E. Kenerson | 1938 | 188 | 75   | Dr | 6  | -               | Bedrock                    | -       | -       | F    | D | L. Reported yield 7 gpm.        |
| 2 | W16-7 | do.             | 1900 | 190 | 19.0 | Dg | 36 | Sand and gravel | Ice-contact deposits       | 4.92    | 5-14-56 | None | U |                                 |
| 3 | W15-1 | R. E. Lowry     | 1935 | 87  | 53   | Dr | 6  | -               | Bedrock                    | -       | -       | F    | D | L.                              |
| 4 | W16-8 | Edith M. Spurr  | 1945 | 250 | 200  | Dr | 6  | -               | do.                        | 17      | -45     | J    | D | L. Reported yield 12 gpm.       |
| 5 | W16-7 | Albert E. Gray  | 1948 | 130 | 123  | Dr | 6  | -               | do.                        | Flowing | -48     | S    | D | L. Reported yield 10 gpm. T 50. |
| 6 | W16-7 | Edmund Roy      | 1955 | 110 | 19.8 | Dg | 24 | Sand            | Outwash and shore deposits | 4.33    | 5-18-56 | S    | D |                                 |
| 7 | W16-8 | Adam J. Mazur   | 1900 | 185 | 13.0 | Dg | 36 | -               | Till                       | 5.30    | 5-18-56 | S    | D | Not in use in 1956.             |

Table 2.--Records of selected wells and test holes in southeastern New Hampshire--Continued

| Well no.                      | Location: | Owner or user                            | Year completed: | Altitude of land-surface datum: | Depth of well: | Type of well: | Diameter of well: | Water-bearing material Character: | Geologic unit:                   | Water level Depth: | Date:   | Type of pump: | Use:  | Remarks                                                                                                              |
|-------------------------------|-----------|------------------------------------------|-----------------|---------------------------------|----------------|---------------|-------------------|-----------------------------------|----------------------------------|--------------------|---------|---------------|-------|----------------------------------------------------------------------------------------------------------------------|
|                               |           |                                          |                 | (feet)                          | (feet)         |               | (inches)          |                                   |                                  |                    |         |               |       |                                                                                                                      |
| ROCKINGHAM COUNTY (Continued) |           |                                          |                 |                                 |                |               |                   |                                   |                                  |                    |         |               |       |                                                                                                                      |
| STRATHAM                      |           |                                          |                 |                                 |                |               |                   |                                   |                                  |                    |         |               |       |                                                                                                                      |
| 1                             | W17-9     | F. C. Chick                              | 1952            | 140                             | 22             | Dg            | 36                | Sand and gravel                   | Ice-contact deposits             | 15.31              | 6-22-54 | S             | D     |                                                                                                                      |
| 2                             | W17-9     | Arnold Whittaker                         | 1941            | 130                             | 100            | Dr            | 6                 | -                                 | Bedrock                          | -                  | -       | F             | D     | Reported yield 10 gpm.                                                                                               |
| 3                             | W17-9     | L. M. Eaton                              | 1766            | 130                             | 14.0           | Dg            | 36                | -                                 | Till                             | 10.42              | 9-6-55  | S             | D     |                                                                                                                      |
| 4                             | W17-8     | Leslie Seammon                           | 1900            | 100                             | 17.3           | Dg            | 40                | -                                 | do.                              | 12.27              | 9-9-55  | S             | D     |                                                                                                                      |
| 5                             | W17-9     | Ernest Wiggin Jr.                        | 1955            | 125                             | 17.8           | Dg            | 48                | -                                 | do.                              | 9.38               | 9-9-55  | None          | D     | Well not completed, 9-56.                                                                                            |
| 6                             | W17-8     | A. B. Cushman                            | 1900            | 125                             | 21.0           | Dg            | 36                | Sand and gravel                   | Ice-contact deposits             | 16.85              | 9-15-55 | S             | D     |                                                                                                                      |
| 7                             | W17-9     | Town of Stratham                         | 1935            | 175                             | 20.4           | Dg            | 36                | -                                 | Till                             | 15.89              | 9-13-55 | S             | PS    | C. W.                                                                                                                |
| 8                             | W16-3     | Ralph Amsden                             | 1934            | 165                             | 25.0           | Dg            | 60                | -                                 | do.                              | 7.98               | 9-14-55 | S             | D     | Reported yield 8 gpm.                                                                                                |
| 9                             | W16-3     | M. S. Chase                              | 1900            | 140                             | 20.9           | Dg            | 40                | Sand and gravel                   | Ice-contact deposits             | 11.98              | 9-15-55 | S             | D     |                                                                                                                      |
| 10                            | W16-2     | Town of Exeter                           | 1929            | 60                              | 21             | Dg            | 30-300            | -                                 | -                                | -                  | -       | None          | PS    | Battery of 9 wells; 6 30-inch; 2 52-inch; 1 300-inch. Standby supply for Exeter. L for Stratham 18 at same location. |
| 11                            | W17-9     | Gowen Bros.                              | 1926            | 120                             | 24.3           | Dg            | 144               | -                                 | Till                             | 16.69              | 9-19-55 | F             | D, Ir | W. Formerly used for irrigating crops. Reported yield 40 gpm.                                                        |
| 12                            | W16-3     | Sturgis Estate                           | 1914            | 170                             | 310            | Dr            | 6                 | -                                 | Bedrock                          | -                  | -       | F             | D     | L. Reported yield 15 gpm.                                                                                            |
| 13                            | W17-9     | L. F. LaLoud                             | 1939            | 140                             | 82             | Dr            | 6                 | -                                 | do.                              | -                  | -       | F             | D     | L. Reported yield 7 gpm.                                                                                             |
| 14                            | W17-9     | Greenwood Cemetery                       | 1937            | 67                              | 40             | Dr            | 6                 | Sand and gravel                   | Ice-contact deposits and bedrock | -                  | -       | F             | C     | L. Reported yield 100 gpm.                                                                                           |
| 15                            | W17-8     | Christie Stratham Farm                   | 1926            | 37                              | 248            | Dr            | 6                 | -                                 | Bedrock                          | -                  | -       | T             | D     | L. Reported yield 20 gpm.                                                                                            |
| 16                            | W17-9     | Sadie B. and Harriet Jewell              | 1933            | 125                             | 91             | Dr            | 8                 | -                                 | do.                              | -                  | -       | F             | D     | L. Reported yield 6 gpm.                                                                                             |
| 17                            | W17-9     | Valmore Langelier                        | 1955            | 125                             | 57.5           | Dr            | 6                 | -                                 | do.                              | 16.83              | 9-9-55  | None          | D     | Pump not installed, 9-55.                                                                                            |
| 18                            | W16-2     | Town of Exeter                           | 1955            | 65                              | 34             | Dn            | 2                 | -                                 | -                                | -                  | -       | None          | T     | L. At same location as Stratham 10.                                                                                  |
| 19                            | W16-3     | Corps of Engineers                       | 1951            | 85                              | 25             | Dn            | 2                 | -                                 | -                                | -                  | -       | None          | T     | L.                                                                                                                   |
| 20                            | W17-9     |                                          |                 | 130                             | 34             |               |                   |                                   |                                  |                    |         |               |       |                                                                                                                      |
| STRAFFORD COUNTY              |           |                                          |                 |                                 |                |               |                   |                                   |                                  |                    |         |               |       |                                                                                                                      |
| BARRINGTON                    |           |                                          |                 |                                 |                |               |                   |                                   |                                  |                    |         |               |       |                                                                                                                      |
| 1                             | W18-1     | Waldron Haley                            | 1950            | 212                             | 12.2           | Dg            | 36                | Sand                              | Outwash and shore deposits       | 7.50               | 3-11-54 | F             | D     | C. W. T. 50.                                                                                                         |
| 2                             | V18-3     | Mrs. Herman Taylor                       | 1900            | 205                             | 18.0           | Dg            | 36                | Sand and gravel                   | Ice-contact deposits             | 7.11               | 9-23-54 | F             | D     |                                                                                                                      |
| 3                             | W18-1     | E. L. Pervis                             | 1900            | 195                             | 13.8           | Dg            | 36                | Sand                              | Outwash and shore deposits       | 5.56               | 9-23-54 | F             | D     |                                                                                                                      |
| 4                             | W18-1     | LaFrance Estate                          | -               | 365                             | 14.5           | Dg            | 36                | -                                 | Till                             | 1.96               | 9-23-54 | None          | U     |                                                                                                                      |
| 5                             | W18-1     | Studley Estate                           | 1900            | 260                             | 17.3           | Dg            | 36                | -                                 | do.                              | -                  | -       | None          | U     |                                                                                                                      |
| 6                             | W18-1     | N.H. Dept. Pub. Wks. and Hgwys. U.S.G.S. | 1956            | 200                             | 49.0           | Dr            | 4                 | -                                 | -                                | -                  | -       | None          | T     | L.                                                                                                                   |
| 7                             | V18-6     | Lewis Blake                              | 1939            | 175                             | 86             | Dr            | 6                 | -                                 | Bedrock                          | 9                  | -39     | -             | D     | L. Reported yield 3½ gpm.                                                                                            |

Table 2.--Records of selected wells and test holes in southeastern New Hampshire--Continued

| Well no. | Location: | Owner or user                            | Year completed: | Altitude of land surface datum (feet): | Depth (feet): | Type of well: | Diameter of well (inches): | Water-bearing material Character: | Geologic unit:             | Water level Depth: | Date:    | Type of pump: | Use: | Remarks                                                                                |
|----------|-----------|------------------------------------------|-----------------|----------------------------------------|---------------|---------------|----------------------------|-----------------------------------|----------------------------|--------------------|----------|---------------|------|----------------------------------------------------------------------------------------|
| 1        | W18-2     | A. Poulin                                | -               | 165                                    | 17.7          | Dg            | 42                         | -                                 | Till                       | 17.06              | 9-30-53  | None          | U    |                                                                                        |
| 2        | W18-3     | Herbert D. Harriman                      | 1952            | 210                                    | 23.0          | Dn            | 1 $\frac{1}{4}$            | Sand                              | Ice-contact deposits       | 16.12              | 10-8-53  | F             | D    |                                                                                        |
| 3        | W18-5     | City of Dover                            | 1950            | 146.83                                 | 31.5          | Dn            | 2                          | Sand and gravel                   | do.                        | 25.55              | 1-8-54   | None          | O    | L. Water level measured when well D5, 300 feet northwest, pumping at 700 gpm. D, 1956. |
|          |           | (Barbadoes Boring No. 7)                 |                 |                                        |               |               |                            |                                   |                            |                    |          |               |      |                                                                                        |
| 4        | X18-7     | City of Dover (Dover Point Boring No. 8) | 1950            | 15                                     | 62            | Dn            | 2                          | Sand, silt, and clay              | Marine deposits            | 5.51               | 1-13-54  | None          | O    | L. D, 5-54.                                                                            |
| 5        | W18-5     | City of Dover (Barbadoes well)           | 1946            | 142.38                                 | 69            | Dr            | 18                         | Sand and gravel                   | Ice-contact deposits       | 24.35              | 11-11-50 | T             | PS   | C. L. Reported yield 700 gpm at 6.5 feet drawdown.                                     |
| 6        | W18-3     | City of Dover (Smith well)               | 1940            | 180                                    | 85            | Dr            | 18                         | do.                               | do.                        | 26.04              | 3-4-54   | T             | PS   | C. L. Reported yield 630 gpm at 6 feet drawdown. T 53.                                 |
| 7        | W18-2     | Corps of Engineers (Dover No. B-41)      | 1952            | 145                                    | -             | Dn            | 2 $\frac{1}{2}$            | do.                               | do.                        | 8.98               | 1-8-54   | None          | O    | Casing plugged at 9.9 feet.                                                            |
| 8        | W18-6     | Corps of Engineers (No. 1.A.11)          | 1952            | 97.40                                  | 48.6          | Dn            | 2 $\frac{1}{2}$            | do.                               | do.                        | 9.66               | 11-24-53 | None          | O    | L. W.                                                                                  |
| 9        | W18-6     | Corps of Engineers (No. 1.A.9)           | 1952            | 97.11                                  | 92.0          | Dn            | 2 $\frac{1}{2}$            | do.                               | do.                        | 9.52               | 1-18-54  | None          | O    | W.                                                                                     |
| 10       | W18-6     | Corps of Engineers (No. 1.A.5)           | 1952            | 103.09                                 | 55.2          | Dn            | 2 $\frac{1}{2}$            | do.                               | do.                        | 9.79               | 1-21-54  | None          | O    | W.                                                                                     |
| 11       | W18-6     | Corps of Engineers (No. 1.A.1)           | 1952            | 98.60                                  | 82.5          | Dn            | 2 $\frac{1}{2}$            | do.                               | do.                        | 1.28               | 1-21-54  | None          | O    | C. W. T 56.                                                                            |
| 12       | W18-6     | Corps of Engineers (No. 1.A.7)           | 1952            | 106.02                                 | 31.3          | Dn            | 2 $\frac{1}{2}$            | do.                               | do.                        | 9.12               | 1-21-54  | None          | O    | L. W.                                                                                  |
| 13       | W18-6     | Corps of Engineers (No. 1.A.8)           | 1952            | 95                                     | 13.5          | Dn            | 2 $\frac{1}{2}$            | do.                               | do.                        | +1.43              | 1-21-54  | None          | O    | L. W.                                                                                  |
| 14       | W18-6     | Corps of Engineers (No. 1.A.13)          | 1952            | 105.27                                 | 102.2         | Dn            | 2 $\frac{1}{2}$            | do.                               | do.                        | 17.65              | 1-22-54  | None          | O    | L.                                                                                     |
| 15       | W18-6     | Corps of Engineers (No. 1.A.15)          | 1952            | 100                                    | 80            | Dn            | 2 $\frac{1}{2}$            | do.                               | do.                        | 12.72              | 6-1-54   | None          | O    | L. Casing plugged at 17.5 feet.                                                        |
| 16       | X18-7     | City of Dover (Dover Point 8" test well) | 1950            | 13                                     | 29.0          | Dr            | 8                          | do.                               | do.                        | 0.93               | 3-31-54  | None          | O    | L. 1951 pump test: reported yield 350 gpm; reported dd 11.5 feet.                      |
| 17       | W18-2     | Corps of Engineers (Dover C No. 19A)     | 1952            | 150                                    | 29.1          | Dn            | 2                          | do.                               | do.                        | 6.67               | 1-28-54  | None          | O    | W.                                                                                     |
| 18       | X18-7     | Wilfred Veil                             | 1940            | 100                                    | 12.7          | Dg            | 36                         | do.                               | do.                        | 5.34               | 3-9-54   | L             | D    |                                                                                        |
| 19       | X18-7     | A. A. Junior                             | 1905            | 40                                     | 11.5          | Dg            | 42                         | do.                               | do.                        | 6.85               | 3-11-54  | F             | U    |                                                                                        |
| 20       | W18-6     | H. V. Preston                            | 1900            | 117                                    | 28.7          | Dg            | 42                         | do.                               | do.                        | 21.78              | 4-9-54   | F             | D    |                                                                                        |
| 21       | W18-9     | I. W. Colprit                            | 1900            | 93                                     | 15.8          | Dg            | 36                         | Sand                              | Outwash and shore deposits | 6.79               | 4-9-54   | None          | U    | W.                                                                                     |
| 22       | W18-9     | U. S. Geol. Survey                       | 1954            | 100                                    | 27.6          | Dn            | 1                          | do.                               | do.                        | 10.94              | 4-12-54  | None          | O    | W.                                                                                     |
| 23       | W18-6     | Keith H. Torr                            | 1917            | 120                                    | 27.9          | Dg            | 36                         | Sand and gravel                   | Ice-contact deposits       | 23.32              | 4-15-54  | None          | U    | W. Recorder.                                                                           |
| 24       | W18-3     | Strafford Farms Dairy                    | 1953            | 203                                    | 30            | Dg            | 96                         | do.                               | do.                        | 16                 | -54      | F             | I    | C. T 47.                                                                               |
| 25       | W18-3     | City of Dover (Willand Pond Well)        | 1954            | 203.02                                 | 65            | Dr            | 8                          | do.                               | do.                        | 14.3               | 9-54     | T             | PS   | C. L. Reported yield 220 gpm. T 48.                                                    |

## STRAFFORD COUNTY (Continued)

## DOVER

Table 2.--Records of selected wells and test holes in southeastern New Hampshire--Continued

| Well no.                     | Location | Owner or user                                 | Year completed | Altitude of land surface datum (feet) | Depth (feet) | Type of well | Diameter of well (inches) | Water-bearing material Character | Geologic unit              | Water level Depth | Date    | Type of pump | Use | Remarks                    |
|------------------------------|----------|-----------------------------------------------|----------------|---------------------------------------|--------------|--------------|---------------------------|----------------------------------|----------------------------|-------------------|---------|--------------|-----|----------------------------|
| STRAFFORD COUNTY (Continued) |          |                                               |                |                                       |              |              |                           |                                  |                            |                   |         |              |     |                            |
| DOVER (Continued)            |          |                                               |                |                                       |              |              |                           |                                  |                            |                   |         |              |     |                            |
| 26                           | W18-3    | J. V. McCarthy                                | 1900           | 183                                   | 25.0         | Dg           | 36                        | -                                | Till                       | 14.30             | 8-11-54 | None         | U   |                            |
| 27                           | X18-4    | Three Rivers Farm                             | 1905           | 15                                    | 10.5         | Dg           | 60                        | Sand                             | Outwash and shore deposits | 3.12              | 3-9-54  | F            | D   |                            |
| 28                           | W18-2    | Parker Tebbetts                               | 1900           | 165                                   | 13.5         | Dg           | 36                        | do.                              | do.                        | 7.27              | 9-27-54 | L            | D   |                            |
| 29                           | W18-2    | Walter Stanley                                | 1900           | 145                                   | 12.5         | Dg           | 36                        | do.                              | do.                        | 7.55              | 9-27-54 | F            | D   |                            |
| 30                           | W18-4    | General Ice-cream Corp.                       | 1930           | 68                                    | 400          | Dr           | 8                         | -                                | Bedrock                    | -                 | -       | F            | U   | L. Reported yield 20 gpm.  |
| 31                           | W18-3    | City of Dover (Layne Well)                    | 1931           | 180                                   | 85           | Dr           | 18                        | Sand and gravel                  | Ice-contact deposits       | 25                | -54     | T            | FS  | L. Reported yield 610 gpm. |
| 32                           | W18-2    | Corps of Engineers                            | 1952           | -                                     | -            | Dn           | 2½                        | -                                | -                          | -                 | -       | None         | T   | L.                         |
| 33                           | W18-5    | Corps of Engineers                            | 1952           | 139                                   | 45.7         | Dn           | 2½                        | -                                | -                          | 1.3               | -52     | None         | T   | L.                         |
| 34                           | W18-5    | Corps of Engineers (Dover B No. 38)           | 1952           | 137                                   | 92.8         | Dn           | 2½                        | -                                | -                          | -                 | -       | None         | T   | L.                         |
| 35                           | W18-5    | Corps of Engineers (Dover B No. 39)           | 1952           | 140                                   | 166          | Dr           | 8                         | -                                | -                          | -                 | -       | None         | T   | L.                         |
| 36                           | W18-5    | Corps of Engineers (C-8" No. 16)              | 1952           | 137                                   | 55           | Dn           | 2½                        | -                                | -                          | 2.8               | -52     | None         | T   | L.                         |
| 37                           | W18-5    | Corps of Engineers (Dover B No. 36)           | 1952           | 137                                   | 81           | Dn           | 2½                        | -                                | -                          | 1.1               | -52     | None         | T   | L. Reported yield 115 gpm. |
| 38                           | W18-5    | Corps of Engineers (Dover B No. 35, 35A, 35B) | 1952           | 135                                   | 72           | Dn           | 2½                        | -                                | -                          | -                 | -       | None         | T   | L. Reported yield 50 gpm.  |
| 39                           | W18-5    | Corps of Engineers (Dover B No. 40)           | 1952           | 138                                   | 90           | Dn           | 2½                        | -                                | -                          | -                 | -       | None         | T   | L.                         |
| 40                           | W18-5    | Corps of Engineers                            | 1952           | 140                                   | 126          | Dn           | 2½                        | -                                | -                          | -                 | -       | None         | T   | L.                         |
| 41                           | W18-2    | do.                                           | 1952           | 120                                   | 31           | Dr           | 8                         | -                                | -                          | -                 | -       | None         | T   | L.                         |
| 42                           | W18-2    | do.                                           | 1952           | 156                                   | 142.5        | Dr           | 8                         | -                                | -                          | 17.1              | -52     | None         | T   | L.                         |
| 43                           | W18-2    | do.                                           | 1952           | 160                                   | 64           | Dr           | 8                         | -                                | -                          | -                 | -       | None         | T   | L.                         |
| 44                           | W18-6    | do.                                           | 1952           | 87                                    | 38           | Dn           | 2½                        | -                                | -                          | -                 | -       | None         | T   | L.                         |
| 45                           | W18-6    | do.                                           | 1952           | 107                                   | 109.5        | Dr           | 8                         | -                                | -                          | -                 | -       | None         | T   | L.                         |
| 46                           | W18-6    | do.                                           | 1952           | 90                                    | 59           | Dr           | 8                         | -                                | -                          | -                 | -       | None         | T   | L.                         |
| 47                           | W18-6    | do.                                           | 1952           | 103.09                                | 103.5        | Dn           | 2½                        | -                                | -                          | -                 | -       | None         | T   | L.                         |
| 48                           | W18-6    | do.                                           | 1952           | 85                                    | 7            | Dn           | 2½                        | -                                | -                          | -                 | -       | None         | T   | L.                         |
| 49                           | W18-6    | do.                                           | 1952           | 105                                   | 48           | Dr           | 8                         | -                                | -                          | 42                | -52     | None         | T   | L.                         |
| 50                           | W18-6    | Corps of Engineers (8" No. 10)                | 1952           | 125                                   | 106          | Dr           | 8                         | -                                | -                          | -                 | -       | None         | T   | L.                         |
| 51                           | W18-6    | Corps of Engineers                            | 1952           | 60                                    | 57           | Dn           | 2½                        | -                                | -                          | -                 | -       | None         | T   | L.                         |
| 52                           | W18-6    | Corps of Engineers                            | 1952           | 95                                    | 135          | Dr           | 8                         | -                                | -                          | -                 | -       | None         | T   | L.                         |
| 53                           | W18-7    | Albert H. Gage                                | 1933           | 65                                    | 131          | Dr           | 6                         | -                                | Bedrock                    | 34                | -33     | -            | D   | L. Reported yield 12 gpm.  |
| 54                           | W18-7    | Harvey Deming                                 | 1939           | 60                                    | 98           | Dr           | -                         | -                                | do.                        | -                 | -       | -            | D   | L. Reported yield 4 gpm.   |
| 55                           | W18-6    | Obed Taylor                                   | 1931           | 105                                   | 181          | Dr           | -                         | -                                | do.                        | -                 | -       | -            | D   | L. Reported yield 3½ gpm.  |
| 56                           | W18-4    | John Rousseau                                 | 1936           | 130                                   | 129          | Dr           | -                         | -                                | do.                        | -                 | -       | -            | D   | L. Reported yield 7 gpm.   |
| 57                           | W18-4    | Daegenfield Property                          | 1936           | 45                                    | 67           | Dr           | -                         | -                                | do.                        | -                 | -       | -            | D   | L. Reported yield 6 gpm.   |
| 58                           | W18-9    | Joseph Newsy                                  | 1936           | 125                                   | 129          | Dr           | -                         | -                                | do.                        | -                 | -       | -            | D   | L. Reported yield 3½ gpm.  |
| 59                           | W18-7    | Joseph Rousseau                               | 1932           | 80                                    | 40           | Dr           | -                         | -                                | do.                        | -                 | -       | -            | D   | L. Reported yield 3½ gpm.  |

Table 2.--Records of selected wells and test holes in southeastern New Hampshire--Continued

| Well no.                     | Location | Owner or user                                      | Year completed | Altitude of land surface datum (feet) | Depth (feet) | Type of well | Diameter of well (inches) | Water-bearing material Character | Geologic unit        | Water level Depth | Date    | Type of pump | Use | Remarks |
|------------------------------|----------|----------------------------------------------------|----------------|---------------------------------------|--------------|--------------|---------------------------|----------------------------------|----------------------|-------------------|---------|--------------|-----|---------|
| STRAFFORD COUNTY (Continued) |          |                                                    |                |                                       |              |              |                           |                                  |                      |                   |         |              |     |         |
| DOVER (Continued)            |          |                                                    |                |                                       |              |              |                           |                                  |                      |                   |         |              |     |         |
| 71                           | W18-6    | W. F. D. Hayden                                    | 1931           | 55                                    | 223          | Dr           | -                         | -                                | Bedrock              | -                 | -       | -            | D   | L.      |
| 72                           | W18-2    | Corps of Engineers (C - 8" No. 19)                 | 1952           | 150                                   | 61           | Dr           | 8                         | -                                | -                    | 2.9               | -52     | None         | T   | L.      |
| 73                           | W18-9    | Fred Jensvill                                      | 1934           | 105                                   | 106          | Dr           | -                         | -                                | Bedrock              | -                 | -       | -            | D   | L.      |
| 74                           | W18-9    | City of Dover                                      | 1950           | 42-                                   | 54-          | Dn           | 2                         | -                                | -                    | -                 | -       | None         | T   | L.      |
| 75                           | X18-7    |                                                    | 95             | 58                                    |              |              |                           |                                  |                      |                   |         |              |     |         |
| 76                           | X18-7    | City of Dover (Dover Point Boring No. 1)           | 1950           | 12                                    | 43           | Dn           | 2                         | -                                | -                    | 5                 | -50     | None         | T   | L.      |
| 77                           | X18-7    | City of Dover (City of Dover Gravel Pit Test Well) | 1950           | 125                                   | 36           | Dr           | 8                         | -                                | -                    | -                 | -       | None         | T   | L.      |
| 78                           | X18-7    | City of Dover                                      | 1950           | 8-                                    | 79-          | Dn           | 2½                        | -                                | -                    | -                 | -       | None         | T   | L.      |
| 79                           |          |                                                    |                | 10                                    | 86           |              |                           |                                  |                      |                   |         |              |     |         |
| 80                           | W18-3    | Strafford Farms Dairy                              | 1948           | 203                                   | 595          | Dr           | -                         | -                                | Bedrock              | -                 | -       | -            | U   | L.      |
| 81                           | W18-5    | City of Dover (Barbadoes Boring No. 9)             | 1950           | 145                                   | 87.5         | Dn           | -                         | -                                | -                    | 14.3              | -50     | None         | T   | L.      |
| 82                           | W18-9    | Corps of Engineers (8" No. 6)                      | 1952           | 100                                   | 100          | Dr           | 8                         | -                                | -                    | -                 | -       | None         | T   | L.      |
| 83                           | W18-2    | Corps of Engineers (C - 8" No. 21)                 | 1952           | 135                                   | 91           | Dr           | 8                         | -                                | -                    | 15.4              | -52     | None         | T   | L.      |
| 84                           | W18-6    | Dover Sand and Gravel Co.                          | 1957           | 160                                   | 168          | Dr           | 8                         | Sand and gravel                  | Ice-contact deposits | 56.81             | 4-30-57 | None         | U   | L.      |
| DURHAM                       |          |                                                    |                |                                       |              |              |                           |                                  |                      |                   |         |              |     |         |
| 1                            | W17-1    | U. S. Geol. Survey                                 | 1954           | 95                                    | 22.6         | Dr           | 1                         | Sand, silt, and clay             | Marine deposits      | 10.38             | 3-4-54  | None         | O   | W.      |
| 2                            | W18-9    | F. D. Manock                                       | 1900           | 78                                    | 24.3         | Dg           | 36                        | -                                | Till                 | 18.90             | 2-24-54 | None         | U   |         |
| 3                            | W18-9    | L. B. Merrick                                      | 1900           | 95                                    | 17.0         | Dg           | 36                        | -                                | do.                  | 6.62              | 2-24-54 | None         | U   | W.      |
| 4                            | W18-8    | Col. E. W. Putney                                  | -              | 125                                   | 10.0         | Dg           | 36                        | -                                | do.                  | 0.31              | 2-24-54 | None         | U   |         |
| 5                            | W18-8    | Univ. of New Hampshire                             | 1916           | 30                                    | 498          | Dr           | 6                         | -                                | Bedrock              | -                 | -       | -            | T   | U.      |
| 6                            | W18-8    | do.                                                | 1930           | 27                                    | 550          | Dr           | 6                         | -                                | do.                  | -                 | -       | -            | T   | U.      |
| 7                            | W18-8    | Daniel M. Ninde                                    | 1951           | 37                                    | 195          | Dr           | 6                         | -                                | do.                  | 22                | -51     | J            | D   | L.      |
| 8                            | W17-2    | Grover Smith                                       | 1900           | 75                                    | 16.5         | Dg           | 36                        | Sand and gravel                  | Ice-contact deposits | 13.92             | 10-4-56 | L            | D   | T 51.   |
| 9                            | W17-1    | Corps of Engineers (No. 12)                        | 1953           | 95                                    | 58           | Dn           | 2½                        | -                                | -                    | -                 | -       | None         | T   | L.      |
| 10                           | W18-7    | Corps of Engineers                                 | 1953           | 80-                                   | 40.0-        | Dn           | 2½                        | -                                | -                    | -                 | -       | None         | T   | L.      |
| 11                           | W17-1    |                                                    |                | 95                                    | 87.8         |              |                           |                                  |                      |                   |         |              |     |         |
| 12                           |          |                                                    |                |                                       |              |              |                           |                                  |                      |                   |         |              |     |         |
| 13                           | W18-9    | Mrs. Lester Langley                                | 1935           | 10                                    | 176          | Dr           | 8                         | -                                | Bedrock              | -                 | -       | -            | D   | L.      |

Table 2.--Records of selected wells and test holes in southeastern New Hampshire--Continued

| Well no.                     | Location: | Owner or user                                      | Year completed: | Altitude of land surface datum (feet) | Depth (feet) | Type of well | Diameter of well (inches) | Water-bearing material Character | Geologic unit                    | Water level Depth (feet) | Date     | Type of pump | Use | Remarks                                                  |
|------------------------------|-----------|----------------------------------------------------|-----------------|---------------------------------------|--------------|--------------|---------------------------|----------------------------------|----------------------------------|--------------------------|----------|--------------|-----|----------------------------------------------------------|
| STRAFFORD COUNTY (Continued) |           |                                                    |                 |                                       |              |              |                           |                                  |                                  |                          |          |              |     |                                                          |
| FARMINGTON                   |           |                                                    |                 |                                       |              |              |                           |                                  |                                  |                          |          |              |     |                                                          |
| 1                            | V20-8     | Town of Farmington                                 | 1944            | 255                                   | 55           | Dr           | 24                        | Sand and gravel                  | Ice-contact deposits             | 12                       | -        | T            | PS  | C. L. Reported yield 315 gpm. Reported dd 32 feet. T 44. |
| 2                            | V20-8     | do.                                                | 1938            | 257                                   | 19           | Dg           | 240                       | Sand                             | do.                              | 9                        | -        | T            | PS  | L. Reported yield 250 gpm.                               |
| 3                            | V20-8     | Lefours Estate                                     | -               | 314                                   | 14.0         | Dg           | 42                        | Sand and gravel                  | do.                              | 4.05                     | 4-5-54   | None         | U   | W.                                                       |
| 4                            | V19-3     | Ted Hooper                                         | 1825            | 285                                   | 25.7         | Dg           | 36                        | do.                              | do.                              | 23.77                    | 4-5-54   | F            | D   | L. C. T 49.                                              |
| 5                            | V19-2     | American Oil Company                               | 1955            | 285                                   | 223          | Dr           | 8                         | -                                | Bedrock                          | 40                       | -55      | J            | D   | L. Reported yield 8 gpm.                                 |
| LEE                          |           |                                                    |                 |                                       |              |              |                           |                                  |                                  |                          |          |              |     |                                                          |
| 1                            | V17-3     | Mildred Carlson                                    | 1900            | 190                                   | 32.8         | Dg           | 40                        | Sand and gravel                  | Ice-contact deposits             | 31.45                    | 11-12-53 | None         | U   | W. T 48.                                                 |
| 2                            | V17-3     | W. Thurston                                        | 1932            | 153                                   | 19.3         | Dg           | 24                        | Sand                             | Outwash and shore deposits       | 18.98                    | 11-17-53 | L            | U   | W. T 49.                                                 |
| 3                            | W17-1     | Mrs. E. Claridge                                   | 1860            | 100                                   | 15.0         | Dg           | 36                        | -                                | Till                             | 13.42                    | 11-10-53 | F            | D   |                                                          |
| 4                            | W18-7     | Town of Durham                                     | 1953            | 112                                   | 47.0         | Dn           | 2½                        | Sand and gravel                  | Ice-contact deposits             | 3.83                     | 11-17-53 | None         | O   | L. W. Reported yield 50 gpm. T 47.                       |
| 5                            | W18-7     | do.                                                | 1953            | 112                                   | 49.0         | Dn           | 2½                        | do.                              | do.                              | +0.99                    | 11-17-53 | None         | O   | C. L. Natural flow 3 gpm 11-53. T 47.                    |
| 6                            | W17-1     | Carl Sanders                                       | 1900            | 112                                   | 21.5         | Dg           | 36                        | -                                | Till                             | 10.69                    | 2-11-54  | L            | D   | C. T 45.                                                 |
| 7                            | W18-7     | U. S. Geol. Survey                                 | 1954            | 105                                   | 22.5         | Dn           | 1                         | Sand and gravel                  | Ice-contact deposits             | 10.31                    | 3-4-54   | None         | O   | W. Log for Lee 13 at same location.                      |
| 8                            | W18-7     | Eleanor Price                                      | 1955            | 200                                   | 23.0         | Dg           | 32                        | -                                | Till                             | 14.21                    | 3-24-55  | F            | D   |                                                          |
| 9                            | W17-1     | Herbert Palmer                                     | 1900            | 125                                   | 20.5         | Dg           | 36                        | -                                | do.                              | 9.86                     | 4-11-55  | None         | U   | W.                                                       |
| 10                           | V17-3     | James B. Walker                                    | 1914            | 190                                   | 154          | Dr           | 6                         | Sand and gravel                  | Ice-contact deposits and bedrock | 40                       | -14      | F            | D   | L. Reported yield 90 gpm.                                |
| 11                           | V17-3     | Fred True                                          | 1947            | 195                                   | 120          | Dr           | 6                         | -                                | Bedrock                          | 22                       | -47      | J            | D   | L. Reported yield 4 gpm.                                 |
| 12                           | W17-1     | Wilbur Wright                                      | 1949            | 80                                    | 96           | Dr           | 6                         | -                                | do.                              | 22                       | -49      | J            | D   | L. Reported yield 4½ gpm.                                |
| 13                           | W18-7     | Corps of Engineers                                 | 1953            | 105                                   | 69.5         | Dn           | 2½                        | Sand and gravel                  | Ice-contact deposits             | 10.31                    | 3-4-54   | None         | T   | L. Reported yield 50 gpm.                                |
| 14                           | W18-7     | do.                                                | 1953            | -                                     | -            | Dn           | 2½                        | -                                | -                                | -                        | -        | None         | T   | L.                                                       |
| 22                           | W17-1     |                                                    |                 |                                       |              |              |                           |                                  |                                  |                          |          |              |     |                                                          |
| 23                           | W18-7     | Corps of Engineers (No. 15)                        | 1953            | 113.4                                 | 56.5         | Dn           | 2½                        | Sand and gravel                  | Ice-contact deposits             | 5.3                      | -53      | None         | T   | L. Reported yield 25 gpm.                                |
| 24                           | W18-7     | Corps of Engineers (No. 15A)                       | 1953            | 118.02                                | 51           | Dn           | 2½                        | do.                              | do.                              | 2.6                      | -53      | None         | T   | L. Reported yield 35 gpm.                                |
| 25                           | W18-7     | Corps of Engineers (No. 15C)                       | 1953            | 110.6                                 | 48           | Dn           | 2½                        | do.                              | do.                              | 0.5                      | -53      | None         | T   | L. Reported yield 75 gpm.                                |
| 26                           | W18-7     | Corps of Engineers (No. 15E)                       | 1953            | 111.4                                 | 48.0         | Dn           | 2½                        | do.                              | do.                              | 1.8                      | -53      | None         | T   | L. Reported yield 50 gpm.                                |
| 27                           | V18-9     | N.H. Dept. Pub. Wks. and Hgwys.-U.S.G.S. Lee No. 1 | 1956            | 190                                   | 38           | Dr           | 4                         | -                                | -                                | -                        | -        | None         | T   | L.                                                       |
| 28                           | V17-3     | Wadley Falls sand pit--U.S.G.S. Lee No. 2          | 1956            | 100                                   | 39           | Dr           | 4                         | -                                | -                                | -                        | -        | None         | T   | L.                                                       |

Table 2.--Records of selected wells and test holes in southeastern New Hampshire--Continued

| Well no.                     | Location | Owner or user                           | Year completed | Altitude of land surface datum (feet) | Depth (feet) | Type of well | Diameter (inches) | Water-bearing material |                            | Water level |          | Type of pump |    | Use | Remarks                                                                                                    |
|------------------------------|----------|-----------------------------------------|----------------|---------------------------------------|--------------|--------------|-------------------|------------------------|----------------------------|-------------|----------|--------------|----|-----|------------------------------------------------------------------------------------------------------------|
|                              |          |                                         |                |                                       |              |              |                   | Character              | Geologic unit              | Depth       | Date     |              |    |     |                                                                                                            |
| STRAFFORD COUNTY (Continued) |          |                                         |                |                                       |              |              |                   |                        |                            |             |          |              |    |     |                                                                                                            |
| MADBURY                      |          |                                         |                |                                       |              |              |                   |                        |                            |             |          |              |    |     |                                                                                                            |
| 1                            | W18-9    | Corps of Engineers (No. 3.A.23)         | 1952           | 30.71                                 | 14.2         | Dn           | 2½                | Sand and gravel        | Ice-contact deposits       | 3.33        | 12-17-53 | None         | O  | D   | 4-54, L.                                                                                                   |
| 2                            | W18-9    | Corps of Engineers (No. 3.A.25)         | 1952           | 33.01                                 | 44.5         | Dn           | 2½                | do.                    | do.                        | 6.29        | 1-13-54  | None         | O  | D   | 5-54, L.                                                                                                   |
| 3                            | W18-9    | Corps of Engineers (No. 3.A.34)         | 1952           | 31.33                                 | 46.8         | Dn           | 2½                | do.                    | do.                        | 3.60        | 1-21-54  | None         | O  | L   | W.                                                                                                         |
| 4                            | W18-9    | Corps of Engineers (No. 3.A.29)         | 1952           | 32.66                                 | 55.3         | Dn           | 2½                | do.                    | do.                        | 0.93        | 1-21-54  | None         | O  | D   | 5-54, L. C. T 48.                                                                                          |
| 5                            | W18-9    | Corps of Engineers (No. 3.A.40)         | 1952           | 47.35                                 | 60.4         | Dn           | 2½                | do.                    | do.                        | 13.57       | 1-21-54  | None         | O  | D   | 8-54, L.                                                                                                   |
| 6                            | W18-9    | Corps of Engineers (No. 12.A.35)        | 1952           | 39.10                                 | 90           | Dn           | 2½                | do.                    | do.                        | 4.39        | 1-26-54  | None         | O  | D   | 9-54, L.                                                                                                   |
| 7                            | W18-5    | City of Dover (Barbadoes Boring No. 8)  | 1950           | 137.67                                | 43.8         | Dn           | 2                 | do.                    | do.                        | 15.32       | 3-11-54  | None         | O  | L   | W. Casing plugged at 17.6 feet. Water level measured when Dover 5, 800 feet southeast, pumping at 700 gpm. |
| 8                            | W18-9    | E. P. Campbell                          | 1932           | 105                                   | 129          | Dr           | 6                 | -                      | Bedrock                    | 32          | -32      | F            | D  | L   | Reported yield 1½ gpm.                                                                                     |
| 9                            | W18-5    | Corps of Engineers (No. 13.B.30)        | 1952           | 105                                   | 88           | Dn           | 2½                | Sand and gravel        | Ice-contact deposits       | 10.2        | 4-20-54  | None         | O  | L   | W. Natural flow 1½ gpm 4-20-54, T 48.                                                                      |
| 10                           | W18-5    | Moses Pigeon                            | -              | 140                                   | 7.2          | Dg           | 40                | Sand                   | do.                        | 2.98        | 10-7-54  | F            | D  | L   |                                                                                                            |
| 11                           | W18-9    | City of Portsmouth                      | 1954           | 31.1½                                 | 38           | Dr           | 24                | Sand and gravel        | do.                        | 4           | -54      | T            | FS | C   | (analysis for composite sample of wells Madbury 11-14). L.                                                 |
| 12                           | W18-9    | do.                                     | 1954           | 32.7½                                 | 45           | Dr           | 24                | do.                    | do.                        | 4.9         | -54      | T            | FS | L   |                                                                                                            |
| 13                           | W18-9    | do.                                     | 1954           | 32.7½                                 | 60           | Dr           | 24                | do.                    | do.                        | 0.8         | -54      | T            | FS | L   |                                                                                                            |
| 14                           | W18-9    | do.                                     | 1954           | 39.0½                                 | 90           | Dr           | 24                | do.                    | do.                        | 3.36        | 3-21-55  | T            | FS | L   | Reported yield 900 gpm.                                                                                    |
| 15                           | W18-5    | Corps of Engineers                      | 1952           | -                                     | -            | Dn           | 2½                | -                      | -                          | -           | -        | None         | T  | L   |                                                                                                            |
| 25                           | W18-6    | do.                                     | 1952           | 110                                   | 33.5         | Dn           | 2½                | -                      | -                          | 8.5         | -52      | None         | T  | L   |                                                                                                            |
| 26                           | W18-6    | do.                                     | 1952           | 160                                   | 45           | Dn           | 2½                | -                      | -                          | 27          | -52      | None         | T  | L   |                                                                                                            |
| 27                           | W18-6    | do.                                     | 1952           | 138                                   | 81           | Dn           | 2½                | Sand and gravel        | Ice-contact deposits       | -           | -        | None         | T  | L   |                                                                                                            |
| 28                           | W18-6    | do.                                     | 1952           | -                                     | -            | Dn           | 2½                | -                      | -                          | -           | -        | None         | T  | L   |                                                                                                            |
| 29                           | W18-9    | do.                                     | 1952           | -                                     | -            | Dn           | 2½                | -                      | -                          | -           | -        | None         | T  | L   |                                                                                                            |
| 52                           | W18-5    | City of Dover (Barbadoes Boring No. 10) | 1950           | 160                                   | 57.7         | Dn           | 2                 | -                      | -                          | -           | -        | None         | T  | L   |                                                                                                            |
| 54                           | W18-5    | Paul M. Raynes                          | 1953           | 200                                   | 330          | Dr           | 8                 | -                      | Bedrock                    | 80          | -53      | Sb           | D  | L   | Reported yield 9 gpm.                                                                                      |
| ROCHESTER                    |          |                                         |                |                                       |              |              |                   |                        |                            |             |          |              |    |     |                                                                                                            |
| 1                            | W19-1    | C. L. Patch                             | 1947           | 250                                   | 26           | Dg           | 36                | Sand                   | Outwash and shore deposits | 19.00       | 10-5-53  | L            | D  | L   |                                                                                                            |
| 2                            | W19-7    | Pizzaro Estate                          | 1925           | 230                                   | 12           | Dg           | 36                | do.                    | do.                        | 9.48        | 10-19-53 | F            | D  | L   |                                                                                                            |
| 3                            | W19-7    | Mont Calvaire Cemetery                  | -              | 190                                   | 9.8          | Dg           | 36                | do.                    | do.                        | 8.10        | 10-20-53 | L            | C  | L   |                                                                                                            |
| 4                            | W19-5    | Parker's Flower Shop                    | 1950           | 280                                   | 11.5         | Dg           | 96                | -                      | Till                       | 4           | -50      | F            | I  | L   |                                                                                                            |

Table 2.--Records of selected wells and test holes in southeastern New Hampshire--Continued

| Well no. | Location: | Owner or user                    | Year completed: | Altitude of land surface datum (feet) | Depth (feet) | Type of well | Diameter (inches) | Water-bearing material         | Character                  | Geologic unit | Water level | Depth    | Date | Type of pump | Use      | Remarks                         |
|----------|-----------|----------------------------------|-----------------|---------------------------------------|--------------|--------------|-------------------|--------------------------------|----------------------------|---------------|-------------|----------|------|--------------|----------|---------------------------------|
| 5        | W19-5     | Wesley Jefferson                 | 1900            | 235                                   | 13.3         | Dg           | 36                | Sand                           | Outwash and shore deposits |               | 9.62        | 12-21-53 | None | U            |          |                                 |
| 6        | W19-4     | City of Rochester (Ranney No. 3) | 1947            | 225.54                                | 64           | Dr           | 6                 | Sand and gravel                | Ice-contact deposits       |               | 5.58        | 12-21-53 | None | O            | L. W.    |                                 |
| 7        | W19-5     | William Lee                      | 1900            | 305                                   | 16.5         | Dg           | 36                | -                              | Till                       |               | 4.87        | 3-9-54   | None | U            |          |                                 |
| 8        | W19-4     | People's Market                  | 1932            | 235                                   | 207          | Dr           | 8                 | -                              | Bedrock                    |               | 14.98       | 12-21-53 | F    | I            | L.       | Reported yield 12 gpm.          |
| 9        | W19-4     | City of Rochester (Ranney No. 4) | 1947            | 223.09                                | 99           | Dr           | 6                 | Sand and gravel                | Ice-contact deposits       |               | 2.11        | 4-29-54  | None | O            | L. W.    |                                 |
| 10       | W19-1     | Arthur Leavitt                   | 1950            | 250                                   | 55           | Dr           | 6                 | Sand                           | Outwash and shore deposits |               | 23          | -50      | J    | D            | C. T 53. |                                 |
| 11       | W19-3     | Ernest Cook                      | 1900            | 265                                   | 23.5         | Dg           | 36                | Sand and gravel                | Ice-contact deposits       |               | 18.58       | 7-12-54  | F    | D            |          |                                 |
| 12       | W19-4     | R. M. MacLeod                    | 1949            | 250                                   | 12.5         | Dg           | 24                | -                              | Till                       |               | 5.05        | 7-13-54  | F    | D            |          |                                 |
| 13       | W19-1     | M. R. Perkins                    | -               | 265                                   | 15.0         | Dg           | 36                | Sand and gravel                | Ice-contact deposits       |               | 10.57       | 8-4-54   | F    | D            |          |                                 |
| 14       | W19-1     | Mary Tebbets                     | -               | 248                                   | 16.0         | Dg           | 36                | do.                            | do.                        |               | 13.30       | 9-16-54  | None | U            |          |                                 |
| 15       | W19-8     | U. S. Geol. Survey               | 1954            | 240                                   | 9.5          | Dn           | 1                 | Sand                           | Outwash and shore deposits |               | 3.56        | 9-15-54  | None | O            | D 1955.  |                                 |
| 16       | W19-5     | Everett Gagne                    | 1940            | 240                                   | 153          | Dg           | 18                | Sand and gravel                | Ice-contact deposits       |               | 9.45        | 9-16-54  | None | U            |          |                                 |
| 17       | W19-1     | Sam Liecotelli                   | 1948            | 230                                   | 8.0          | Dg           | 36                | Sand                           | Outwash and shore deposits |               | 6.39        | 9-16-54  | None | U            |          |                                 |
| 18       | W19-1     | E. H. Bliven                     | 1953            | 245                                   | 260          | Dr           | 6                 | -                              | Bedrock                    |               | 17          | -53      | F    | D            | L.       | Reported yield 7½ gpm. C. T 54. |
| 19       | W19-7     | Hattie Flagg                     | 1900            | 210                                   | 10.0         | Dg           | 36                | Sand                           | Outwash and shore deposits |               | 6.18        | 9-16-54  | F    | D            |          |                                 |
| 20       | W19-8     | E. W. Campbell                   | 1900            | 165                                   | 30           | Dg           | 36                | Very fine sand, silt, and clay | Marine deposits            |               | 4.88        | 9-23-54  | F    | D            |          |                                 |
| 21       | W18-1     | Sumner Watson                    | 1947            | 200                                   | 280          | Dr           | 8                 | -                              | Bedrock                    |               | -           | -        | J    | D            | L.       | Reported yield 10 gpm.          |
| 22       | W19-4     | City of Rochester (Ranney No. 2) | 1947            | 225                                   | 94.0         | Dr           | 6                 | Sand and gravel                | Ice-contact deposits       |               | 0.9         | -54      | None | T            | L.       |                                 |
| 23       | W19-4     | City of Rochester (Ranney No. 7) | 1947            | 222.0                                 | 90.5         | Dr           | 6                 | do.                            | do.                        |               | +0.65       | -47      | None | T            | L.       |                                 |
| 24       | W19-4     | City of Rochester (Ranney No. 6) | 1947            | 226.0                                 | 94           | Dr           | 6                 | do.                            | do.                        |               | 5.5         | -47      | None | T            | L.       |                                 |
| 25       | W19-4     | City of Rochester (Ranney No. 5) | 1947            | 221.56                                | 60.0         | Dr           | 6                 | -                              | -                          |               | 1.3         | -47      | None | T            | L.       |                                 |
| 26-28    | W19-7     | N.H. Dept. Pub. Wks. and Hgwys.  | 1956            | 173.7-194.2                           | 84.0-126     | Dn           | 2                 | -                              | -                          |               | -           | -        | None | T            | L.       |                                 |

## STRAFFORD COUNTY (Continued)

## ROCHESTER (Continued)

Table 2.--Records of selected wells and test holes in southeastern New Hampshire--Continued

| Well no.                     | Location: | Owner or user                              | Year completed: | Altitude of land surface datum (feet): | Depth (feet): | Type of well: | Diameter of well (inches): | Water-bearing material Character: | Geologic unit:             | Water level Depth: | Date:    | Type of pump: | Use: | Remarks                                                                                                                                 |
|------------------------------|-----------|--------------------------------------------|-----------------|----------------------------------------|---------------|---------------|----------------------------|-----------------------------------|----------------------------|--------------------|----------|---------------|------|-----------------------------------------------------------------------------------------------------------------------------------------|
| STRAFFORD COUNTY (Continued) |           |                                            |                 |                                        |               |               |                            |                                   |                            |                    |          |               |      |                                                                                                                                         |
| ROLLINSFORD                  |           |                                            |                 |                                        |               |               |                            |                                   |                            |                    |          |               |      |                                                                                                                                         |
| 1                            | X18-5     | Irvin Anderson                             | -               | 65                                     | 22.0          | Dg            | 24                         | Very fine sand, silt, and clay    | Marine deposits            | 18.07              | 3-9-54   | L             | U    |                                                                                                                                         |
| 2                            | X18-2     | Town of Salmon Falls (Well No. 1)          | 1946            | 94                                     | 213           | Dr            | 8                          | -                                 | Bedrock                    | -                  | -        | T             | PS   |                                                                                                                                         |
| 3                            | X18-2     | Town of Salmon Falls (Well No. 2)          | 1946            | 92                                     | 196           | Dr            | 8                          | -                                 | do.                        | 8.65               | 9-22-54  | T             | PS   |                                                                                                                                         |
| 4                            | X18-2     | Town of Salmon Falls (Well No. 3)          | 1946            | 95                                     | 202           | Dr            | 8                          | -                                 | do.                        | -                  | -        | T             | PS   |                                                                                                                                         |
| 5                            | X18-1     | H. Cummings                                | 1900            | 138                                    | 40            | Dg            | 36                         | Sand and gravel                   | Ice-contact deposits       | 9.76               | 9-21-54  | None          | U    |                                                                                                                                         |
| 6                            | X18-2     | G. A. Letarte                              | 1900            | 108                                    | 20.5          | Dg            | 36                         | Sand                              | Outwash and shore deposits | 15.34              | 9-22-54  | None          | U    |                                                                                                                                         |
| 7                            | X18-2     | T. W. Hood                                 | 1940            | 110                                    | 98            | Dr            | 6                          | -                                 | Bedrock                    | -                  | -        | J             | D    |                                                                                                                                         |
| 8                            | X18-1     | Albert Viel--U.S.G.S. (Salmon Falls No. 3) | 1956            | 118                                    | 24            | Dr            | 4                          | Sand and gravel                   | Ice-contact deposits       | -                  | -        | None          | T    | C. L. Natural flow 5½ gpm 10-3-56. T 49.                                                                                                |
| 9                            | X18-1     | U. S. Geol. Survey                         | 1956            | 128                                    | 49.0          | Dr            | 4                          | -                                 | -                          | -                  | -        | None          | T    | L.                                                                                                                                      |
| 10                           |           |                                            |                 | 130                                    | 49.0          |               |                            |                                   |                            |                    |          |               |      |                                                                                                                                         |
| 11                           | W18-3     | City of Dover                              | 1950            | 175                                    | 28            | Dn            | 2½                         | -                                 | Marine deposits            | -                  | -        | None          | T    | L.                                                                                                                                      |
| 12                           |           |                                            |                 | 175                                    | 72            |               |                            |                                   |                            |                    |          |               |      |                                                                                                                                         |
| SOMERSWORTH                  |           |                                            |                 |                                        |               |               |                            |                                   |                            |                    |          |               |      |                                                                                                                                         |
| 1                            | W19-9     | City of Somersworth (Well No. 1)           | 1932            | 205                                    | 59            | Dr            | 24                         | Sand and gravel                   | Ice-contact deposits       | 15                 | -        | T             | PS   | C. Reported yield 625 gpm. Reported dd 27 feet. T 50.                                                                                   |
| 2                            | W19-9     | City of Somersworth (Well No. 2)           | 1939            | 190                                    | 65            | Dr            | 24                         | do.                               | do.                        | 21.92              | 9-22-53  | T             | PS   | Reported yield 525 gpm. Reported dd 27 feet. Water level measured when well Somersworth 1, about 120 feet north, pumping about 600 gpm. |
| 3                            | W19-9     | Indigo Hill Road Cemetery                  | 1926            | 225                                    | 17.5          | Dg            | 36                         | do.                               | do.                        | 16.83              | 10-12-53 | L             | C    |                                                                                                                                         |
| 4                            | W19-9     | City of Somersworth (Test hole No. 30)     | 1953            | 185                                    | 24.5          | Dn            | 2½                         | do.                               | do.                        | 7.02               | 1-22-54  | None          | O    | L.                                                                                                                                      |
| 5                            | W19-9     | City of Somersworth (Test hole No. 28)     | 1953            | 183                                    | 20.0          | Dn            | 2½                         | do.                               | do.                        | 5.97               | 1-28-54  | None          | O    | L. W.                                                                                                                                   |
| 6                            | W18-3     | Ralph Caswell                              | 1950            | 215                                    | 125           | Dr            | 8                          | -                                 | Bedrock                    | 18                 | -50      | F             | D    | L. Reported yield 5 gpm.                                                                                                                |
| 7                            | W18-3     | S. J. Merrill Estate                       | 1936            | 220                                    | 86            | Dr            | 10                         | -                                 | do.                        | 20                 | -36      | F             | D    | L. Reported yield 4 gpm.                                                                                                                |
| 8                            | W19-9     | Emma St. John                              | -               | 205                                    | 21.5          | Dg            | 36                         | Sand and gravel                   | Ice-contact deposits       | 10.93              | 9-20-54  | F             | D    |                                                                                                                                         |
| 9                            | X19-7     | Atala Thibeault                            | -               | 150                                    | 19.3          | Dg            | 36                         | do.                               | do.                        | 12.44              | 9-21-54  | F             | U    |                                                                                                                                         |
| 10                           | X18-1     | Eugene Ellsworth                           | 1900            | 220                                    | 29.0          | Dg            | 72                         | -                                 | Till                       | 10.00              | 9-21-54  | C             | S    |                                                                                                                                         |
| 11                           | W18-3     | City of Dover                              | 1954            | 205                                    | 28            | Dn            | 2                          | -                                 | -                          | 15.73              | 1-11-55  | None          | O    |                                                                                                                                         |
| 12                           | X18-1     | City of Somersworth No. 1                  | 1952            | 180                                    | 33            | Dn            | 2½                         | -                                 | -                          | -                  | -        | None          | T    | L.                                                                                                                                      |

Table 2.--Records of selected wells and test holes in southeastern New Hampshire--Continued

| Well no.                     | Location: | Owner or user       | Year completed | Altitude of land surface datum (feet) | Depth of well (feet) | Type of well | Diameter of well (inches) | Water-bearing material |               | Water level |      | Type of pump | Use | Remarks                            |
|------------------------------|-----------|---------------------|----------------|---------------------------------------|----------------------|--------------|---------------------------|------------------------|---------------|-------------|------|--------------|-----|------------------------------------|
|                              |           |                     |                |                                       |                      |              |                           | Character              | Geologic unit | Depth       | Date |              |     |                                    |
| STRAFFORD COUNTY (Continued) |           |                     |                |                                       |                      |              |                           |                        |               |             |      |              |     |                                    |
| SOMERSWORTH (Continued)      |           |                     |                |                                       |                      |              |                           |                        |               |             |      |              |     |                                    |
| 13                           | X18-1     | City of Somersworth | 1952           | 160                                   | 43.0                 | Dn           | 2½                        | -                      | -             | -           | -    | None         | T   | L. Natural flow about 10 gpm 7-54. |
|                              | No. 2     |                     |                |                                       |                      |              |                           |                        |               |             |      |              |     |                                    |
| 14                           | X18-1,    | City of Somersworth | 1952           | 150-                                  | 6-                   | Dn           | 2½                        | -                      | -             | -           | -    | None         | T   | L.                                 |
| 35                           | W19-9,    |                     |                | 210                                   | 68                   |              |                           |                        |               |             |      |              |     |                                    |
|                              | W18-3     |                     |                |                                       |                      |              |                           |                        |               |             |      |              |     |                                    |
| 36                           | W19-9     | City of Somersworth | 1952           | 198                                   | 14.0                 | Dn           | 2½                        | -                      | -             | 8           | -52  | None         | T   | L.                                 |
|                              | No. 24    |                     |                |                                       |                      |              |                           |                        |               |             |      |              |     |                                    |
| 37                           | W19-9     | City of Somersworth | 1952           | 184-                                  | 48-                  | Dn           | 2½                        | -                      | -             | -           | -    | None         | T   | L.                                 |
| 39                           |           |                     |                | 194                                   | 60                   |              |                           |                        |               |             |      |              |     |                                    |
| 40                           | W19-9     | City of Somersworth | 1952           | 200                                   | 21                   | Dn           | 2½                        | -                      | -             | 5           | -52  | None         | T   | L.                                 |
|                              | No. 31    |                     |                |                                       |                      |              |                           |                        |               |             |      |              |     |                                    |
| 41                           | W19-9     | City of Somersworth | 1952           | 205                                   | 10                   | Dn           | 2½                        | -                      | -             | 6           | -52  | None         | T   | L.                                 |
|                              | No. 32    |                     |                |                                       |                      |              |                           |                        |               |             |      |              |     |                                    |

1/ Altitude of land surface before construction of pump house.

Table 3.--Records of selected springs in southeastern New Hampshire

| Spring                       | Location | Owner                    | Approx. altitude above mean sea level (feet) | Type     | Geologic units and structure                                 | Water-bearing material          | Openings | Improvements                                                   | Discharge                                         | Temperature (°F) | Date(s) visited | Remarks                                                  |
|------------------------------|----------|--------------------------|----------------------------------------------|----------|--------------------------------------------------------------|---------------------------------|----------|----------------------------------------------------------------|---------------------------------------------------|------------------|-----------------|----------------------------------------------------------|
| <u>Rockingham County</u>     |          |                          |                                              |          |                                                              |                                 |          |                                                                |                                                   |                  |                 |                                                          |
| Brentwood sp 1               | W17-8    | Rockingham County Farm   | 125                                          | Artesian | Ice-contact deposits overlain by marine deposits             | Ice-contact deposits            | 1        | 5 x 6-foot concrete reservoir with overflow pipe.              | 5-6 estimated                                     | -                | 9-27-55         | Surface pond under construction for irrigation use.      |
| Epping sp 1                  | W17-6    | Camp Hedding Association | 115                                          | Contact  | Outwash and shore deposits overlain by marine deposits       | Outwash and shore deposits      | 1        | 1½-inch pipe, extending from rock and concrete wall.           | 8 through pipe, measured. 2-3 leaks, estimated.   | 48               | 7-7-55          | Seasonal domestic use.                                   |
| Exeter sp 1 (Jail Spring)    | W16-2    | City of Exeter           | 30                                           | do.      | do.                                                          | do.                             | 1        | 5 x 6-foot covered concrete reservoir with overflow pipe.      | 5½ measured.                                      | 51               | 8-5-55          | Reserve public-supply use. Chemical analysis in table 6. |
| Exeter sp 2                  | W16-3    | Henry Phinney            | 70                                           | Fissure  | Joints in bedrock                                            | Bedrock                         | 2        | About 10 x 15-foot artificial earth and concrete reservoir.    | 4 estimated                                       | 57               | 9-14-55         | Estimated flow 15 gpm on Jan. 31, 1956.                  |
| Greenland sp 1               | X17-7    | Harold S. Caswell        | 35                                           | Artesian | Bedrock or ice-contact deposits overlain by marine deposits  | Bedrock or ice-contact deposits | About 3  | 24-inch tile about 3 feet deep; spring at bottom.              | 20 estimated                                      | 51               | 11-20-56        | Domestic use.                                            |
| Greenland sp 2 (Cold Spring) | X17-7    | Cold Spring Farm         | 25                                           | do.      | Ice-contact deposits overlain by marine deposits             | Ice-contact deposits            | Unknown  | Artificial rock and earth reservoir about 25 feet in diameter. | 30 measured                                       | -                | 11-20-56        | Domestic supply. Formerly used for fish hatchery.        |
| Kensington sp 1              | W16-4    | Mrs. Frank Kimball       | 35                                           | do.      | do.                                                          | do.                             | About 8  | Rock-walled reservoir about 8 feet in diameter.                | 10 estimated                                      | 49               | 5-5-56          | Domestic use.                                            |
| Newfields sp 1               | W17-4    | Nelson L. Smith          | 97                                           | do.      | do.                                                          | do.                             | 1        | 4 x 5-foot concrete reservoir.                                 | 12 measured                                       | 49               | 7-21-55         | Domestic use.                                            |
| Newington sp 1               | X17-1    | Town of Newington        | 60                                           | do.      | do.                                                          | do.                             | About 5  | Earth and rock reservoir about 10 inches in diameter.          | 15 estimated                                      | -                | 9-2-55          | Public supply for several dwellings.                     |
| Newmarket sp 1               | W17-4    | Mrs. Lydia Hilton        | 100                                          | do.      | do.                                                          | do.                             | Numerous | Wood barrel reservoir about 2 feet in diameter.                | 3 measured from barrel; 8 estimated, other leaks. | 49               | 11-23-53        | Formerly used for domestic supply.                       |
| Newmarket sp 2               | W17-5    | Ludger Beaudet           | 65                                           | do.      | Bedrock or ice-contact deposits overlain by marine deposits. | Bedrock or ice-contact deposits | 1        | Hexagonal concrete reservoir about 9 feet in diameter.         | 12 measured                                       | 52               | 7-20-55         | Domestic and farm use.                                   |

Table 3.--Records of selected springs in southeastern New Hampshire--Continued

| Spring                               | Location | Owner                   | Approx. altitude above mean sea level (feet) | Type     | Geologic units and structure                                    | Water bearing material             | Openings | Improvements                                                                                   | Discharge                               | Temperature (°F) | Date(s) visited  | Remarks                                                                |
|--------------------------------------|----------|-------------------------|----------------------------------------------|----------|-----------------------------------------------------------------|------------------------------------|----------|------------------------------------------------------------------------------------------------|-----------------------------------------|------------------|------------------|------------------------------------------------------------------------|
| <u>Rockingham County (Continued)</u> |          |                         |                                              |          |                                                                 |                                    |          |                                                                                                |                                         |                  |                  |                                                                        |
| Newmarket sp 3                       | W17-4    | Frank Sewall            | 80                                           | Artesian | Ice-contact deposits overlain by marine deposits.               | Ice-contact deposits               | 1        | Rock-walled reservoir about 5 feet in diameter.                                                | 45 measured; 10 estimated; other leaks. | 50½              | 9-29-55          | Reported yield 104 gpm. Chemical analysis in table 6.                  |
| Newton sp 1                          | V16-9    | Thomas W. Locke         | 145                                          | do.      | Bedrock or unconsolidated deposits overlain by Recent alluvium. | Bedrock or unconsolidated deposits | About 4  | 50-gallon oil drum reservoir.                                                                  | 10 estimated                            | 50               | 1-6-56           | Limited local use in summer.                                           |
| North Hampton sp 1                   | X17-7    | Kenneth Adams           | 45                                           | do.      | Ice-contact deposits overlain by marine deposits.               | Ice-contact deposits               | 3        | 2 x 3 foot concrete reservoir, 6.0 feet deep.                                                  | 12 estimated                            | -                | 4-13-56          | Domestic use.                                                          |
| Stratham sp 1                        | W17-9    | F. L. Witham            | 125                                          | do.      | do.                                                             | do.                                | 2        | Hole about 4 feet in diameter, 3 feet deep.                                                    | 1 estimated                             | -                | 9-19-55          | do.                                                                    |
| <u>Strafford County</u>              |          |                         |                                              |          |                                                                 |                                    |          |                                                                                                |                                         |                  |                  |                                                                        |
| Dover sp 1                           | W18-9    | I. W. Colprit           | 75                                           | Contact  | Outwash and shore deposits underlain by marine deposits.        | Outwash and shore deposits         | Unknown  | 4 x 4-foot concrete reservoir, 4.8 feet deep.                                                  | 3 estimated                             | -                | 4-15-56          | Domestic and farm use.                                                 |
| Dover sp 2                           | W18-9    | Mrs. Charles W. Burnell | 90                                           | Fissure  | Joints in bedrock.                                              | Bedrock                            | do.      | Brick reservoir about 4 feet in diameter, about 3 feet deep.                                   | 3 estimated                             | -                | 4-15-56          | Domestic use.                                                          |
| Dover sp 3                           | W18-2    | Strafford County Farm   | 135                                          | Contact  | Outwash and shore deposits underlain by marine deposits.        | Outwash and shore deposits         | Numerous | Two rock and concrete storage reservoirs, about 8 to 10 feet in diameter and 4 to 5 feet deep. | 20 estimated                            | 50               | 9-27-54; 10-3-56 | Public supply for Strafford County Farm. Chemical analysis in table 6. |
| Rochester sp 1                       | W19-1    | Ina Down                | 205                                          | do.      | do.                                                             | do.                                | do.      | Part of yield from 2-inch pipe driven in stream bank.                                          | 20 estimated                            | 46               | 10-5-53          | Limited local use in summer.                                           |
| Rochester sp 2                       | W19-7    | Unknown                 | 175                                          | do.      | do.                                                             | do.                                | do.      | None.                                                                                          | 6 estimated                             | 50               | 10-19-53         | Not used.                                                              |
| Rollinsford sp 1 (Hussey Springs)    | W18-3    | Arthur Walker           | 150                                          | Artesian | Ice-contact deposits overlain by marine deposits.               | Ice-contact deposits               | do.      | Concrete and rock reservoir about 10 feet in diameter.                                         | 500 estimated                           | 49               | 2-14-55          | Formerly used for public supply. Chemical analysis in table 6.         |
| Somersworth sp 1 (Crystal Springs)   | W19-9    | Philip Dumas            | 175                                          | Artesian | Ice-contact deposits overlain by marine deposits.               | Ice-contact deposits               | Unknown  | Concrete pipe and rock-walled reservoir about 20 feet in diameter.                             | 12½                                     | 50               | 3-9-54           | Not used. Chemical analysis in table 6.                                |

Table 4.--Logs of selected wells and test holes in southeastern New Hampshire

(See text for explanation)

## ROCKINGHAM COUNTY

|                                                                                                         | Thick-<br>ness<br>(Feet) | Depth<br>(Feet) |                                                                                                                  | Thick-<br>ness<br>(Feet) | Depth<br>(Feet) |                                                                           | Thick-<br>ness<br>(Feet) | Depth<br>(Feet) |
|---------------------------------------------------------------------------------------------------------|--------------------------|-----------------|------------------------------------------------------------------------------------------------------------------|--------------------------|-----------------|---------------------------------------------------------------------------|--------------------------|-----------------|
| <b>BRENTWOOD 1.</b> V17-8. Lat. 43°00'44".<br>Long. 71°03'06". Alt. 140 ft.                             |                          |                 | <b>EPPING 4.</b> V17-5. Lat. 43°02'55".<br>Long. 71°02'46". Alt. 150 ft.                                         |                          |                 | <b>EXETER 17.</b> W16-2. Lat. 42°58'40".<br>Long. 70°56'34". Alt. 30 ft.  |                          |                 |
| Marine deposits:                                                                                        |                          |                 | Geologist's log. (Log starts in<br>bottom of gravel pit about 6 ft.<br>below original land surface.)             |                          |                 | Marine deposits:                                                          |                          |                 |
| Topsoil.....                                                                                            | 1.5                      | 1.5             |                                                                                                                  |                          |                 | Sand, medium, brown.....                                                  | 14                       | 14              |
| Clay.....                                                                                               | 5.1                      | 6.6             |                                                                                                                  |                          |                 | Silt and clay.....                                                        | 66                       | 80              |
| Sand, fine; some clay.....                                                                              | 13.4                     | 20.0            | Ice-contact deposits:                                                                                            |                          |                 | Till:                                                                     |                          |                 |
| Ice-contact deposits:                                                                                   |                          |                 | Sand, fine to medium, uniform;<br>tan.....                                                                       | 25                       | 25              | Gravel and clay.....                                                      | 6                        | 86              |
| Sand, fine, brown.....                                                                                  | 20.5                     | 40.5            | Sand, fine, uniform, tan; some<br>pebbles near bottom.....                                                       | 19                       | 44              | Bedrock.....                                                              |                          | 86              |
| <b>BRENTWOOD 10.</b> V16-3. Lat. 42°58'36".<br>Long. 71°00'14". Alt. 147 ft.                            |                          |                 | Pebbles, refusal, no recovery.                                                                                   |                          | 44              | <b>EXETER 18.</b> W16-2. Lat. 42°58'25".<br>Long. 70°56'30". Alt. 30 ft.  |                          |                 |
| Ice-contact deposits:                                                                                   |                          |                 |                                                                                                                  |                          |                 | Marine deposits:                                                          |                          |                 |
| Gravel.....                                                                                             | 24                       | 24              | <b>EPPING 5.</b> V17-6. Lat. 43°04'15".<br>Long. 71°00'59". Alt. 95 ft.                                          |                          |                 | Sand, fine.....                                                           | 5                        | 5               |
| Sand.....                                                                                               | 42                       | 66              | Geologist's log. (Log starts in<br>bottom of sand pit about 20 ft.<br>below original land surface.)              |                          |                 | Clay.....                                                                 | 17                       | 22              |
| Bedrock.....                                                                                            | 18                       | 84              | Outwash and shore deposits:                                                                                      |                          |                 | Ice-contact deposits:                                                     |                          |                 |
| <b>BRENTWOOD 16.</b> V16-3. Lat. 42°59'26".<br>Long. 71°01'55". Alt. 100 ft.                            |                          |                 | Sand, medium to coarse,<br>micaceous, brown to buff....                                                          | 7.5                      | 7.5             | Sand, fine to medium.....                                                 | 30                       | 52              |
| Geologist's log.                                                                                        |                          |                 | Sand, medium to coarse,<br>micaceous, rusty brown.....                                                           | 2.5                      | 10.0            | <b>EXETER 19.</b> W16-3. Alt. 105 ft.<br>Long. 70°54'37". Lat. 42°58'41". |                          |                 |
| Marine deposits:                                                                                        |                          |                 | Marine deposits:                                                                                                 |                          |                 | Marine deposits:                                                          |                          |                 |
| Soil, silty, brown.....                                                                                 | 1                        | 1               | Silt and clay, greenish-gray to<br>blue-gray; contains streaks<br>of medium to coarse sand and<br>fine sand..... | 10.0                     | 20.0            | Sand, gray.....                                                           | 8                        | 8               |
| Silt, light olive-drab to<br>gray; some clay.....                                                       | 14                       | 15              |                                                                                                                  |                          |                 | Till:                                                                     |                          |                 |
| Clay and silt, bluish-gray.....                                                                         | 9                        | 24              | <b>EXETER 2.</b> W16-2. Lat. 42°53'25".<br>Long. 70°56'40". Alt. 35 ft.                                          |                          |                 | Sand, gravel, and clay,<br>hardpacked, gray.....                          | 6                        | 14              |
| <b>BRENTWOOD 17.</b> V16-2. Lat. 42°58'48".<br>Long. 71°04'13". Alt. 120 ft.                            |                          |                 | Marine deposits:                                                                                                 |                          |                 | Sand, gravel, sharp, and clay,<br>hard, gray.....                         | 9                        | 23              |
| Geologist's log. (Log starts in<br>bottom of sand pit about 10 ft.<br>below the original land surface.) |                          |                 | Sand and clay in layers.....                                                                                     | 10                       | 10              | Bedrock.....                                                              |                          | 23              |
| Outwash and shore deposits:                                                                             |                          |                 | Clay, gray and blue.....                                                                                         | 37                       | 47              | <b>EXETER 20.</b> W16-3. Alt. 70 ft.<br>Long. 70°54'28". Lat. 42°58'20".  |                          |                 |
| Sand, medium, uniform, brown...                                                                         | 7.5                      | 7.5             | Sand, fine.....                                                                                                  | 1                        | 48              | Marine deposits:                                                          |                          |                 |
| Sand, fine to medium, brown;<br>a little sand, very fine.....                                           | 4.5                      | 12.0            | Ice-contact deposits:                                                                                            |                          |                 | Sand, fine.....                                                           | 5                        | 5               |
| Marine deposits:                                                                                        |                          |                 | Sand and gravel.....                                                                                             | 8                        | 56              | Clay, hard.....                                                           | 5                        | 10              |
| Silt and clay, gray to bluish-<br>gray; a few scattered pebbles                                         | 5.0                      | 17.0            | <b>EXETER 5.</b> W17-7. Lat. 43°01'10".<br>Long. 70°59'21". Alt. 170 ft.                                         |                          |                 | Silt and clay.....                                                        | 9                        | 19              |
| Ice-contact deposits:                                                                                   |                          |                 | Till.....                                                                                                        | 100                      | 100             | Ice-contact deposits:                                                     |                          |                 |
| Sand; some gravel in layers....                                                                         | 4.0                      | 21.0            | Bedrock:                                                                                                         |                          |                 | Gravel, medium to coarse.....                                             | 13                       | 32              |
| Till:                                                                                                   |                          |                 | Granodiorite.....                                                                                                | 70                       | 170             | <b>EXETER 21.</b> W16-2. Lat. 42°53'22".<br>Long. 70°55'04". Alt. 63 ft.  |                          |                 |
| Silt, sand, and gravel,<br>angular, bluish-gray.....                                                    | 1.0                      | 22.0            | <b>EXETER 8.</b> W16-1. Lat. 42°58'47".<br>Long. 70°57'39". Alt. 65 ft.                                          |                          |                 | Unconsolidated deposits,<br>undifferentiated:                             |                          |                 |
| Refusal.....                                                                                            |                          | 22.0            | Unconsolidated deposits,<br>undifferentiated:                                                                    |                          |                 | Clay, hardpacked, brown.....                                              | 13                       | 13              |
| <b>EAST KINGSTON 3.</b> V16-6. Alt. 148 ft.<br>Long. 71°01'26". Lat. 42°55'46".                         |                          |                 | Clay and sand.....                                                                                               | 60                       | 60              | Sand and clay, brown; some<br>gravel, heavy.....                          | 3                        | 16              |
| Till.....                                                                                               | 50                       | 50              | Bedrock.....                                                                                                     | 90                       | 150             | Ice-contact deposits:                                                     |                          |                 |
| Bedrock.....                                                                                            | 36                       | 86              | <b>EXETER 9.</b> W16-1. Lat. 42°59'07".<br>Long. 70°57'57". Alt. 65 ft.                                          |                          |                 | Sand, brown, and gravel.....                                              | 6                        | 22              |
| <b>EAST KINGSTON 4.</b> V16-6. Alt. 160 ft.<br>Long. 71°01'31". Lat. 42°55'48".                         |                          |                 | Unconsolidated deposits,<br>undifferentiated:                                                                    |                          |                 | Sand and gravel; some clay,<br>gray.....                                  | 8                        | 30              |
| Till.....                                                                                               | 40                       | 40              | Sand and clay.....                                                                                               | 38                       | 38              | <b>EXETER 22.</b> W16-3. Lat. 42°53'28".<br>Long. 70°54'28". Alt. 95 ft.  |                          |                 |
| Bedrock.....                                                                                            | 22                       | 62              | Bedrock.....                                                                                                     | 5                        | 43              | Unconsolidated deposits,<br>undifferentiated:                             |                          |                 |
| <b>EAST KINGSTON 5.</b> V16-9. Alt. 140 ft.<br>Long. 71°00'55". Lat. 42°54'36".                         |                          |                 | <b>EXETER 10.</b> W16-1. Lat. 42°57'50".<br>Long. 70°59'29". Alt. 103 ft.                                        |                          |                 | Clay, brown.....                                                          | 10                       | 10              |
| Till.....                                                                                               | 16                       | 16              | Unconsolidated deposits,<br>undifferentiated:                                                                    |                          |                 | Sand and gravel, brown; a<br>trace of clay, brown.....                    | 8                        | 18              |
| Bedrock.....                                                                                            | 87                       | 103             | Sand and clay.....                                                                                               | 85                       | 85              | Till:                                                                     |                          |                 |
| <b>EAST KINGSTON 7.</b> W16-4. Alt. 192 ft.<br>Long. 70°59'28". Lat. 42°55'26".                         |                          |                 | Bedrock.....                                                                                                     | 25                       | 110             | Hardpan and clay, brown.....                                              | 6                        | 24              |
| Till.....                                                                                               | 92                       | 92              | <b>EXETER 11.</b> W16-1. Lat. 42°57'41".<br>Long. 70°59'59". Alt. 150 ft.                                        |                          |                 | <b>EXETER 23.</b> W16-2. Alt. 43 ft.<br>Long. 70°56'05". Lat. 42°58'55".  |                          |                 |
| Bedrock.....                                                                                            | 102                      | 194             | Ice-contact deposits:                                                                                            |                          |                 | Marine deposits:                                                          |                          |                 |
| <b>EAST KINGSTON 8.</b> V16-6. Alt. 152 ft.<br>Long. 71°00'58". Lat. 42°55'29".                         |                          |                 | Sand, fine, and gravel.....                                                                                      | 90                       | 90              | Sand, fine, brown.....                                                    | 10                       | 10              |
| Till.....                                                                                               | 100                      | 100             | Bedrock.....                                                                                                     | 50                       | 140             | Clay, hard, brown; scattered<br>gravel, sharp.....                        | 7                        | 17              |
| Bedrock.....                                                                                            | 22                       | 122             | <b>EXETER 15.</b> W16-2. Lat. 42°58'26".<br>Long. 70°56'30". Alt. 30 ft.                                         |                          |                 | Ice-contact deposits:                                                     |                          |                 |
| <b>EAST KINGSTON 9.</b> W16-7. Alt. 150 ft.<br>Long. 70°59'09". Lat. 42°54'57".                         |                          |                 | Marine deposits:                                                                                                 |                          |                 | Gravel, sharp, black.....                                                 | 4                        | 21              |
| Till.....                                                                                               | 12                       | 12              | Sand, gray, and sandy loam....                                                                                   | 5                        | 5               | Sand and gravel, sharp,<br>hardpacked, brown.....                         | 4                        | 25              |
| Bedrock.....                                                                                            | 53                       | 65              | Clay, hard, gray.....                                                                                            | 13                       | 18              | Refusal.....                                                              |                          | 25              |
| <b>EPPING 2.</b> V17-7. Lat. 43°01'47".<br>Long. 71°05'07". Alt. 145 ft.                                |                          |                 | Ice-contact deposits:                                                                                            |                          |                 | <b>EXETER 24.</b> W16-2. Lat. 42°58'17".<br>Long. 70°55'58". Alt. 25 ft.  |                          |                 |
| Artificial fill:                                                                                        |                          |                 | Sand and gravel, subangular,<br>gray.....                                                                        | 10                       | 28              | Marine deposits:                                                          |                          |                 |
| Topsoil and sand.....                                                                                   | 7                        | 7               | Sand, gravel, pebbles, and<br>small cobbles, subangular,<br>gray.....                                            | 6                        | 34              | Clay, blue.....                                                           | 55                       | 55              |
| Marine deposits:                                                                                        |                          |                 | Gravel, pebbles, and cobbles,<br>subangular to angular, gray.                                                    | 4                        | 38              | Ice-contact deposits:                                                     |                          |                 |
| Clay.....                                                                                               | 28                       | 35              | Sand; some gravel and pebbles,<br>subangular to angular, gray.                                                   | 10                       | 48              | Sand and gravel, sharp, black<br>and gray.....                            | 7                        | 62              |
| Sand.....                                                                                               | 7                        | 42              | Gravel; some sand, angular,<br>gray.....                                                                         | 10                       | 58              | Bedrock.....                                                              |                          | 62              |
| Clay.....                                                                                               | 17                       | 59              | Till:                                                                                                            |                          |                 | <b>EXETER 25.</b> W16-2. Alt. 38 ft.<br>Long. 70°56'20". Lat. 42°58'45".  |                          |                 |
| Ice-contact deposits:                                                                                   |                          |                 | Hardpan.....                                                                                                     | 4                        | 62              | Marine deposits:                                                          |                          |                 |
| Sand, coarse, and fine gravel..                                                                         | 5                        | 64              | Bedrock.....                                                                                                     |                          | 62              | Sand, brown.....                                                          | 6                        | 6               |
|                                                                                                         |                          |                 |                                                                                                                  |                          |                 | Clay, gray, hard.....                                                     | 14                       | 20              |
|                                                                                                         |                          |                 |                                                                                                                  |                          |                 | Ice-contact deposits:                                                     |                          |                 |
|                                                                                                         |                          |                 |                                                                                                                  |                          |                 | Sand, brown, and gravel; some<br>clay.....                                | 5                        | 25              |
|                                                                                                         |                          |                 |                                                                                                                  |                          |                 | Till:                                                                     |                          |                 |
|                                                                                                         |                          |                 |                                                                                                                  |                          |                 | Hardpan.....                                                              | 3                        | 28              |
|                                                                                                         |                          |                 |                                                                                                                  |                          |                 | Refusal.....                                                              |                          | 28              |

Table 4.--Logs of selected wells and test holes in southeastern New Hampshire--Continued

## ROCKINGHAM COUNTY (Continued)

| Thick-<br>ness<br>(Feet)                                                                                                                                                                                                                                                                                                                                                                                                 | Depth<br>(Feet) |                                                                                                                                                                                                                                                                 | Thick-<br>ness<br>(Feet) | Depth<br>(Feet)                                                                                                                                                                                                             |  | Thick-<br>ness<br>(Feet) | Depth<br>(Feet) |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------|-----------------|
| EXETER 26. W16-2. Lat. 42°57'53".<br>Long. 70°57'16". Alt. 40 ft.<br>Outwash and shore deposits:<br>Sand, fine..... 4 4<br>Marine deposits:<br>Clay..... 38 42<br>Ice-contact deposits:<br>Gravel, hardpacked..... 11 53<br>Refusal..... 53                                                                                                                                                                              |                 | GREENLAND 14. X17-7. Lat. 43°00'54".<br>Long. 70°50'39". Alt. 78 ft.<br>Outwash and shore deposits:<br>Sand, fine, brown..... 10 10<br>Marine deposits:<br>Clay, gray..... 15 25<br>Till:<br>Silt, sandy, gravelly, gray... 5 30<br>Refusal..... 30             |                          | GREENLAND 25.--Continued<br>Till:<br>Clay and gravel..... 5.0 24.1<br>Gravel and broken ledge..... 5.8 29.9                                                                                                                 |  |                          |                 |
| EXETER 27. W16-2. Lat. 42°57'48".<br>Long. 70°57'14". Alt. 38 ft.<br>Marine deposits:<br>Clay..... 30.5 30.5<br>Refusal..... 30.5                                                                                                                                                                                                                                                                                        |                 | GREENLAND 15. X17-7. Lat. 43°00'56".<br>Long. 70°50'15". Alt. 85 ft.<br>Ice-contact deposits:<br>Sand, silty, gravelly, brown.. 10.0 10.0<br>Till:<br>Clay, gray..... 4.5 14.5<br>Refusal..... 14.5                                                             |                          | GREENLAND 26. X17-7. Lat. 43°02'07".<br>Long. 70°51'19". Alt. 33 ft.<br>Marine deposits:<br>Clay, yellow..... 13.6 13.6<br>Clay, blue..... 5.5 19.1<br>Till:<br>Clay and gravel..... 5.3 24.4<br>Ledge gravel..... 6.1 30.5 |  |                          |                 |
| EXETER 28. W16-2. Lat. 42°57'55".<br>Long. 70°56'45". Alt. 35 ft.<br>Marine deposits:<br>Silt and sand, fine..... 6 6<br>Clay..... 44 50<br>Ice-contact deposits:<br>Gravel..... 25 75<br>Bedrock..... 75                                                                                                                                                                                                                |                 | GREENLAND 16. X17-7. Lat. 43°01'18".<br>Long. 70°50'04". Alt. 95 ft.<br>Ice-contact deposits:<br>Sand, gravelly; contains clay<br>lenses, brown..... 17 17<br>Refusal..... 17                                                                                   |                          | GREENLAND 27. X17-7. Lat. 43°02'04".<br>Long. 70°51'19". Alt. 35 ft.<br>Marine deposits:<br>Clay and gravel..... 13.1 13.1<br>Till:<br>Clay, sand, and gravel..... 15.5 28.6<br>Bedrock..... 28.6                           |  |                          |                 |
| GREENLAND 5. X17-8. Lat. 43°00'57".<br>Long. 70°49'30". Alt. 85 ft.<br>Ice-contact deposits:<br>Sand..... 50 50<br>Bedrock..... 45 95                                                                                                                                                                                                                                                                                    |                 | GREENLAND 17. X17-8. Lat. 43°01'45".<br>Long. 70°50'00". Alt. 60 ft.<br>Marine deposits:<br>Sand, fine, brown..... 36 36<br>Sand, silty, gray..... 8 44<br>Till:<br>Silt, sandy, gravelly, gray... 4 48<br>Refusal..... 48                                      |                          | GREENLAND 28. X17-7. Lat. 43°01'48".<br>Long. 70°51'05". Alt. 18 ft.<br>Marine deposits:<br>Clay..... 12.4 12.4<br>Till:<br>Ledge gravel..... 6.0 18.4<br>Refusal (probably bedrock)..... 18.4                              |  |                          |                 |
| GREENLAND 6. X17-8. Lat. 43°01'19".<br>Long. 70°49'55". Alt. 107 ft.<br>Ice-contact deposits:<br>Sand and gravel..... 67 67                                                                                                                                                                                                                                                                                              |                 | GREENLAND 18. X17-7. Lat. 43°01'46".<br>Long. 70°50'09". Alt. 73 ft.<br>Ice-contact deposits:<br>Clay, sandy, gray..... 10 10<br>Sand, fine, and clay, brown-<br>gray..... 26 36<br>Refusal..... 36                                                             |                          | HAMPTON 3. X16-5. Lat. 42°57'29".<br>Long. 70°49'35". Alt. 75 ft.<br>Ice-contact deposits:<br>Sand and gravel..... 9.0 9.0<br>Clay and sand, fine..... 0.5 9.5<br>Sand and gravel..... 48.5 58.0<br>Refusal..... 58.0       |  |                          |                 |
| GREENLAND 7. X17-8. Lat. 43°01'23".<br>Long. 70°49'52". Alt. 105 ft.<br>Ice-contact deposits:<br>Gravel..... 50 50<br>Bedrock:<br>Quartzite, slaty..... 32 82                                                                                                                                                                                                                                                            |                 | GREENLAND 19. X17-7. Lat. 43°01'54".<br>Long. 70°50'19". Alt. 80 ft.<br>Ice-contact deposits:<br>Sand, silty, gravelly; clay<br>lenses..... 11 11<br>Refusal..... 11                                                                                            |                          | HAMPTON 7. X16-5. Lat. 42°56'31".<br>Long. 70°48'46". Alt. 45 ft.<br>Ice-contact deposits:<br>Sand and gravel..... 54 54                                                                                                    |  |                          |                 |
| GREENLAND 8. X17-8. Lat. 43°01'30".<br>Long. 70°49'50". Alt. 100 ft.<br>Ice-contact deposits:<br>Sand and gravel (sand, fine at<br>35, gravel at 63 feet)..... 63 63                                                                                                                                                                                                                                                     |                 | GREENLAND 20. X17-8. Lat. 43°01'48".<br>Long. 70°49'51". Alt. 60 ft.<br>Marine deposits:<br>Clay, yellow, and sand, fine.. 10.6 10.6<br>Ice-contact deposits:<br>Sand and gravel..... 16.0 26.6                                                                 |                          | HAMPTON 10. W16-3. Lat. 42°57'43".<br>Long. 70°53'12". Alt. 125 ft.<br>Unconsolidated deposits,<br>undifferentiated..... 60 60<br>Bedrock:<br>Gneiss..... 100 160                                                           |  |                          |                 |
| GREENLAND 9. X17-8. Lat. 43°02'04".<br>Long. 70°50'00". Alt. 95 ft.<br>Ice-contact deposits:<br>Gravel..... 87 87<br>Bedrock..... 3 90                                                                                                                                                                                                                                                                                   |                 | GREENLAND 21. X17-8. Lat. 43°01'50".<br>Long. 70°49'50". Alt. 50 ft.<br>Marine deposits:<br>Sand, fine..... 13.7 13.7<br>Clay, sand, and gravel..... 10.8 24.5<br>Ice-contact deposits:<br>Gravel, fine..... 21.9 46.4                                          |                          | HAMPTON 11. X16-1. Lat. 42°57'32".<br>Long. 70°51'55". Alt. 70 ft.<br>Till:<br>Sand, gravel, and clay..... 30 30<br>Bedrock..... 202 232                                                                                    |  |                          |                 |
| GREENLAND 10. X17-7. Lat. 43°02'08".<br>Long. 70°50'10". Alt. 60 ft.<br>Ice-contact deposits:<br>Sand, fine..... 80 80<br>Bedrock:<br>(Kittery Quartzite)..... 30 110                                                                                                                                                                                                                                                    |                 | GREENLAND 22. X17-8. Lat. 43°01'55".<br>Long. 70°49'49". Alt. 50 ft.<br>Marine deposits:<br>Clay, sand, and gravel, mixed. 22.9 22.9<br>Ice-contact deposits:<br>Sand, fine..... 4.8 27.7<br>Ledge gravel..... 8.3 36.0<br>Refusal (probably bedrock)..... 36.0 |                          | HAMPTON 12. X16-5. Lat. 42°56'42".<br>Long. 70°49'07". Alt. 77 ft.<br>Ice-contact deposits:<br>Sand..... 30 30<br>Bedrock:<br>Gneiss..... 60 90                                                                             |  |                          |                 |
| GREENLAND 11. X17-4. Lat. 43°02'31".<br>Long. 70°52'00". Alt. 90 ft.<br>Unconsolidated deposits,<br>undifferentiated:<br>Clay, gravel, and boulders.... 45 45<br>Not recorded..... 10 55<br>Bedrock..... 35 90                                                                                                                                                                                                           |                 | GREENLAND 23. X17-7. Lat. 43°02'10".<br>Long. 70°50'11". Alt. 45 ft.<br>Ice-contact deposits:<br>Sand, fine, with clay in<br>upper parts..... 37.6 37.6<br>Sand and gravel..... 10.3 47.9                                                                       |                          | HAMPTON FALLS 3. X16-7. Alt. 67 ft.<br>Lat. 42°54'58". Long. 70°51'48".<br>Ice-contact deposits:<br>Sand..... 35 35<br>Bedrock..... 66 101                                                                                  |  |                          |                 |
| GREENLAND 12. X17-8. Lat. 43°01'12".<br>Long. 70°49'52". Alt. 110 ft.<br>Ice-contact deposits:<br>Sand, slightly silty, gravelly,<br>brown-gray..... 10.0 10.0<br>Sand, coarse, slightly silty,<br>brown-gray..... 10.0 20.0<br>Sand, coarse, slightly silty,<br>brown-gray..... 8.0 28.0<br>Sand, silty, laminated, and<br>silt..... 8.0 36.0<br>Till:<br>Silt, sandy, slightly gravelly. 7.5 43.5<br>Refusal..... 43.5 |                 | GREENLAND 24. X17-7. Lat. 43°02'06".<br>Long. 70°51'43". Alt. 53 ft.<br>Marine deposits:<br>Clay and sand, fine..... 19.2 19.2<br>Sand, fine..... 6.0 25.2<br>Till:<br>Sand, clay, and ledge gravel.. 5.3 30.5<br>Sand, coarse, and broken ledge 10.3 40.8      |                          | HAMPTON FALLS 5. W16-6. Alt. 90 ft.<br>Lat. 42°55'28". Long. 70°52'47".<br>Till..... 35 35<br>Bedrock..... 60 95                                                                                                            |  |                          |                 |
| GREENLAND 13. X17-7. Lat. 43°01'38".<br>Long. 70°50'02". Alt. 60 ft.<br>Marine deposits:<br>Clay, gray..... 30 30<br>Clay, sandy, gray..... 5 35<br>Till:<br>Sand, silty, slightly gravelly;<br>contains mantle rock..... 12 47<br>Refusal..... 47                                                                                                                                                                       |                 | GREENLAND 25. X17-7. Lat. 43°02'07".<br>Long. 70°51'21". Alt. 38 ft.<br>Marine deposits:<br>Clay; some sand..... 19.1 19.1                                                                                                                                      |                          | HAMPTON FALLS 7. W16-6. Alt. 60 ft.<br>Lat. 42°55'07". Long. 70°53'35".<br>Outwash and shore deposits:<br>Sand..... 30 30<br>Till..... 30 60<br>Bedrock..... 60 120                                                         |  |                          |                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                          |                 |                                                                                                                                                                                                                                                                 |                          | HAMPTON FALLS 8. W16-6. Alt. 65 ft.<br>Lat. 42°56'08". Long. 70°54'42".<br>Ice-contact deposits:<br>Sand and gravel..... 17 17<br>Bedrock..... 17                                                                           |  |                          |                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                          |                 |                                                                                                                                                                                                                                                                 |                          | HAMPTON FALLS 10. W16-6. Alt. 103 ft.<br>Lat. 42°57'27". Long. 70°54'18".<br>Till:<br>Gravel..... 11 11<br>Bedrock..... 89 100                                                                                              |  |                          |                 |

Table 4.--Logs of selected wells and test holes in southeastern New Hampshire--Continued

## ROCKINGHAM COUNTY (Continued)

| Thick-<br>ness<br>(Feet)                                                  | Depth<br>(Feet) |     | Thick-<br>ness<br>(Feet)                                             | Depth<br>(Feet) |      | Thick-<br>ness<br>(Feet)                                             | Depth<br>(Feet) |
|---------------------------------------------------------------------------|-----------------|-----|----------------------------------------------------------------------|-----------------|------|----------------------------------------------------------------------|-----------------|
| HAMPTON FALLS 11. W16-6. Alt. 110 ft.<br>Lat. 42°55'48". Long. 70°54'23". |                 |     | KINGSTON 17.--Continued                                              |                 |      | NEWINGTON 13. X17-5. Alt. 70 ft.<br>Lat. 43°04'00". Long. 70°49'12". |                 |
| Till:                                                                     |                 |     | Outwash and shore                                                    |                 |      | Outwash and shore deposits:                                          |                 |
| Sand and gravel.....                                                      | 6               | 6   | deposits:--Continued                                                 |                 |      | Gravel and sand, brown.....                                          | 20 20           |
| Clay, yellow; gravel and rocks...                                         | 33              | 39  | Silt and sand, very fine,                                            |                 |      | Marine deposits:                                                     |                 |
| Clay, blue; gravel and rocks...                                           | 38              | 77  | interbedded with $\frac{1}{2}$ - to                                  |                 |      | Sand, fine, and clay, brown-                                         |                 |
| Bedrock.....                                                              | 73              | 150 | 1-inch layers of medium                                              |                 |      | gray.....                                                            | 18 38           |
|                                                                           |                 |     | sand; some $\frac{1}{2}$ - to 1-inch                                 |                 |      | Refusal.....                                                         | 38              |
| HAMPTON FALLS 15. W16-6. Alt. 115 ft.<br>Lat. 42°55'32". Long. 70°53'57". |                 |     | brown silt layers; a few                                             |                 |      |                                                                      |                 |
| Till.....                                                                 | 120             | 120 | $\frac{1}{2}$ - to 1-inch greenish-gray                              |                 |      | NEWINGTON 14. X17-5. Alt. 70 ft.<br>Lat. 43°03'58". Long. 70°49'11". |                 |
| Bedrock.....                                                              | 130             | 250 | silt and clay layers.....                                            | 29              | 49   | Outwash and shore deposits:                                          |                 |
| KENSINGTON 3. W16-5. Lat. 42°56'42".<br>Long. 70°56'00". Alt. 75 ft.      |                 |     | KINGSTON 18. V16-6. Lat. 42°56'23".<br>Long. 70°02'24". Alt. 120 ft. |                 |      | Sand, coarse, gravelly,                                              |                 |
| Till:                                                                     |                 |     | Geologist's log.                                                     |                 |      | gray-brown.....                                                      | 17 17           |
| Clay and rocks.....                                                       | 9               | 9   | Outwash and shore deposits:                                          |                 |      | Marine deposits:                                                     |                 |
| Bedrock.....                                                              | 99              | 108 | Sand, very fine and fine,                                            |                 |      | Sand, fine, and clay lenses...                                       | 15 32           |
|                                                                           |                 |     | uniform tan; a little silt..                                         | 7.0             | 7.0  | Refusal.....                                                         | 32              |
| KENSINGTON 4. W16-5. Alt. 107 ft.<br>Lat. 42°56'16". Long. 70°56'58".     |                 |     | Silt, grayish-brown.....                                             | 0.5             | 7.5  |                                                                      |                 |
| Ice-contact deposits:                                                     |                 |     | Sand, fine, uniform, yellowish                                       |                 |      | NEWINGTON 15. X17-5. Alt. 60 ft.<br>Lat. 43°03'56". Long. 70°49'12". |                 |
| Sand.....                                                                 | 15              | 15  | tan, with some silty                                                 |                 |      | Outwash and shore deposits:                                          |                 |
| Till.....                                                                 | 9               | 24  | grayish-brown layers.....                                            | 3.5             | 11.0 | Sand, fine.....                                                      | 14 14           |
| Bedrock:                                                                  |                 |     | Marine deposits:                                                     |                 |      | Marine deposits:                                                     |                 |
| Slate.....                                                                | 60              | 84  | Silt, grayish-brown; some                                            |                 |      | Sand, fine, and clay.....                                            | 14 28           |
|                                                                           |                 |     | sand, very fine.....                                                 | 3.0             | 14.0 | Refusal.....                                                         | 28              |
| KENSINGTON 5. W16-4. Lat. 42°56'24".<br>Long. 70°57'59". Alt. 225 ft.     |                 |     | Silt and clay, laminated,                                            |                 |      |                                                                      |                 |
| Till:                                                                     |                 |     | brown and gray.....                                                  | 6.0             | 20.0 | NEWINGTON 16. X17-5. Alt. 80 ft.<br>Lat. 43°03'55". Long. 70°49'11". |                 |
| Clay, sandy.....                                                          | 95              | 95  | Silt and clay, bluish-gray....                                       | 4.0             | 24.0 | Outwash and shore deposits:                                          |                 |
| Bedrock.....                                                              | 25              | 120 |                                                                      |                 |      | Sand, fine, with clay lenses..                                       | 14 14           |
|                                                                           |                 |     | NEWFIELDS 5. W17-8. Alt. 103 ft.<br>Lat. 43°02'15". Long. 70°56'27". |                 |      | Marine deposits:                                                     |                 |
| KENSINGTON 6. W16-4. Alt. 250 ft.<br>Lat. 42°56'24". Long. 70°58'20".     |                 |     | Ice-contact deposits:                                                |                 |      | Clay, blue.....                                                      | 8 22            |
| Till.....                                                                 | 200             | 200 | Sand and gravel.....                                                 | 60              | 60   | Till:                                                                |                 |
| Bedrock.....                                                              | 20              | 220 | Bedrock.....                                                         | 50              | 110  | Silt, sandy, gravelly, gray...                                       | 4 26            |
|                                                                           |                 |     |                                                                      |                 |      | Refusal.....                                                         | 26              |
| KENSINGTON 7. W16-5. Alt. 128 ft.<br>Lat. 42°55'45". Long. 70°56'38".     |                 |     | NEWFIELDS 6. W17-8. Alt. 40 ft.<br>Lat. 43°02'22". Long. 70°56'08".  |                 |      |                                                                      |                 |
| Ice-contact deposits:                                                     |                 |     | Unconsolidated deposits,                                             |                 |      | NEWINGTON 17. X17-5. Alt. 60 ft.<br>Lat. 43°04'08". Long. 70°49'16". |                 |
| Sand, fine, rocky, and silt....                                           | 38              | 38  | undifferentiated.....                                                | 75              | 75   | Outwash and shore deposits:                                          |                 |
| Sand, fine to coarse, and                                                 |                 |     | Bedrock.....                                                         | 50              | 125  | Sand, fine, and clay lenses,                                         |                 |
| gravel, coarse.....                                                       | 10              | 48  |                                                                      |                 |      | brown.....                                                           | 15 15           |
| Bedrock.....                                                              | 2               | 50  |                                                                      |                 |      | Marine deposits:                                                     |                 |
|                                                                           |                 |     | NEWINGTON 8. X17-1. Alt. 20 ft.<br>Lat. 43°05'08". Long. 70°50'45".  |                 |      | Clay, gray.....                                                      | 15 30           |
| KENSINGTON 8. W16-5. Alt. 123 ft.<br>Lat. 42°55'26". Long. 70°56'20".     |                 |     | Marine deposits:                                                     |                 |      | Till:                                                                |                 |
| Ice-contact deposits:                                                     |                 |     | Clay, sandy, yellow.....                                             | 15              | 15   | Silt, sandy, gravelly, gray...                                       | 6 36            |
| Gravel.....                                                               | 40              | 40  | Clay, blue.....                                                      | 20              | 35   | Refusal.....                                                         | 36              |
| Bedrock, soft.....                                                        | 20              | 60  | Till:                                                                |                 |      |                                                                      |                 |
|                                                                           |                 |     | Hardpan.....                                                         | 31              | 66   | NEWINGTON 18. X17-5. Alt. 43 ft.<br>Lat. 43°04'03". Long. 70°49'17". |                 |
| KINGSTON 4. V16-6. Alt. 250 ft.<br>Lat. 42°57'30". Long. 71°00'18".       |                 |     | Bedrock:                                                             |                 |      | Marine deposits:                                                     |                 |
| Till.....                                                                 | 155             | 155 | Rock, shale-like, rotten.....                                        | 20              | 86   | Clay, gray.....                                                      | 40 40           |
| Bedrock.....                                                              | 9               | 164 | Rock, hard.....                                                      | 328             | 414  | Clay, sandy, gray.....                                               | 15 55           |
|                                                                           |                 |     |                                                                      |                 |      | Refusal.....                                                         | 55              |
| KINGSTON 9. V16-5. Alt. 133 ft.<br>Lat. 42°55'40". Long. 71°03'17".       |                 |     | NEWINGTON 9. X17-1. Alt. 38 ft.<br>Lat. 43°05'13". Long. 70°50'41".  |                 |      |                                                                      |                 |
| Outwash and shore deposits:                                               |                 |     | Till:                                                                |                 |      | NEWINGTON 19. X17-5. Alt. 40 ft.<br>Lat. 43°03'56". Long. 70°49'18". |                 |
| Sand and silt.....                                                        | 100             | 100 | Clay and rocks, yellow.....                                          | 5               | 5    | Marine deposits:                                                     |                 |
| Bedrock.....                                                              | 27              | 127 | Clay and rocks, blue.....                                            | 4               | 9    | Clay, sandy, gray.....                                               | 24 24           |
|                                                                           |                 |     | Silt, gravel, and rocks.....                                         | 5               | 14   | Refusal.....                                                         | 24              |
| KINGSTON 16. V16-5. Lat. 42°56'19".<br>Long. 71°03'04". Alt. 120 ft.      |                 |     | Bedrock:                                                             |                 |      |                                                                      |                 |
| Geologist's log.                                                          |                 |     | Rock, soft.....                                                      | 13              | 27   | NEWINGTON 20. X17-5. Alt. 30 ft.<br>Lat. 43°04'01". Long. 70°49'33". |                 |
| Marine deposits:                                                          |                 |     | Rock, hard.....                                                      | 331             | 358  | Marine deposits:                                                     |                 |
| Loam, silty, black.....                                                   | 2               | 2   |                                                                      |                 |      | Clay, gray.....                                                      | 10 10           |
| Sand, very fine and fine, brown                                           | 1               | 3   | NEWINGTON 10. X17-5. Alt. 55 ft.<br>Lat. 43°04'05". Long. 70°49'13". |                 |      | Refusal.....                                                         | 10              |
| Silt and sand, very fine,                                                 |                 |     | Outwash and shore deposits:                                          |                 |      |                                                                      |                 |
| mottled brown to light gray..                                             | 4               | 7   | Sand, gravelly, brown.....                                           | 15              | 15   | NEWINGTON 21. X17-5. Alt. 50 ft.<br>Lat. 43°04'28". Long. 70°49'48". |                 |
| Silt and clay, light gray; a                                              |                 |     | Sand, well-graded, gray.....                                         | 10              | 25   | Marine deposits:                                                     |                 |
| little sand, very fine.....                                               | 13              | 20  | Marine deposits:                                                     |                 |      | Clay, gray.....                                                      | 19.5 19.5       |
| Clay and silt, bluish-gray;                                               |                 |     | Clay, blue-gray.....                                                 | 15              | 40   | Refusal.....                                                         | 19.5            |
| layers of sand at 41 and                                                  |                 |     | Till:                                                                |                 |      |                                                                      |                 |
| 46 feet.....                                                              | 29              | 49  | Silt, sandy, gravelly, gray...                                       | 10              | 50   | NEWINGTON 22. X17-4. Alt. 50 ft.<br>Lat. 43°04'44". Long. 70°50'11". |                 |
|                                                                           |                 |     | Sand, fine, brown; contains                                          |                 |      | Marine deposits:                                                     |                 |
| KINGSTON 17. V16-5. Lat. 42°56'22".<br>Long. 71°03'07". Alt. 130 ft.      |                 |     | rock fragments.....                                                  | 10              | 60   | Clay, gray.....                                                      | 15 15           |
| Geologist's log.                                                          |                 |     | Refusal.....                                                         | 60              | 60   | Silt, gray.....                                                      | 8 23            |
| Outwash and shore deposits:                                               |                 |     |                                                                      |                 |      | Refusal.....                                                         | 23              |
| Topsoil, sandy, brown.....                                                | 2               | 2   | NEWINGTON 11. X17-5. Alt. 65 ft.<br>Lat. 43°04'40". Long. 70°49'52". |                 |      |                                                                      |                 |
| Sand, fine to very coarse,                                                |                 |     | Marine deposits:                                                     |                 |      | NEWINGTON 23. X17-1. Alt. 60 ft.<br>Lat. 43°05'03". Long. 70°50'21". |                 |
| mostly coarse; some gravel,                                               |                 |     | Sand, fine, brown.....                                               | 10              | 10   | Marine deposits:                                                     |                 |
| fine to coarse, brown;                                                    |                 |     | Clay, hard, blue-gray.....                                           | 15              | 25   | Sand, fine, brown.....                                               | 15 15           |
| streaks of medium sand,                                                   |                 |     | Clay and rock fragments.....                                         | 6               | 31   | Clay, gray.....                                                      | 22 37           |
| especially from 10 to 14 feet                                             | 12              | 14  | Refusal.....                                                         | 31              | 31   | Refusal.....                                                         | 37              |
| Sand, fine to very fine, brown                                            |                 |     | NEWINGTON 12. X17-5. Alt. 65 ft.<br>Lat. 43°04'03". Long. 70°49'13". |                 |      |                                                                      |                 |
| to light tan; some silt.....                                              | 6               | 20  | Outwash and shore deposits:                                          |                 |      | NEWINGTON 24. X17-1. Alt. 40 ft.<br>Lat. 43°05'13". Long. 70°50'26". |                 |
|                                                                           |                 |     | Sand and gravel, sandy, brown.                                       | 20              | 20   | Marine deposits:                                                     |                 |
|                                                                           |                 |     | Marine deposits:                                                     |                 |      | Clay, gray.....                                                      | 24 24           |
|                                                                           |                 |     | Clay, sandy, and silt, brown..                                       | 25              | 45   | Refusal.....                                                         | 24              |
|                                                                           |                 |     | Clay, sandy, gray.....                                               | 23              | 68   |                                                                      |                 |
|                                                                           |                 |     | Refusal.....                                                         | 68              | 68   |                                                                      |                 |

Table 4.--Logs of selected wells and test holes in southeastern New Hampshire--Continued

## ROCKINGHAM COUNTY (Continued)

| Thick-<br>ness<br>(Feet)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Depth<br>(Feet) |  | Thick-<br>ness<br>(Feet) | Depth<br>(Feet) |  | Thick-<br>ness<br>(Feet) | Depth<br>(Feet) |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--|--------------------------|-----------------|--|--------------------------|-----------------|
| NEWINGTON 25. X17-1. Alt. 75 ft.<br>Lat. 43°05'53". Long. 70°50'17".<br>Ice-contact deposits:<br>Sand, fine, brown..... 16<br>Clay, gray..... 9<br>Sand, slightly gravelly, and<br>clay lenses, brown..... 41.5<br>Refusal..... 66.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 |  |                          |                 |  |                          |                 |
| NEWINGTON 26. X17-5. Alt. 65 ft.<br>Lat. 43°04'15". Long. 70°49'19".<br>Outwash and shore deposits:<br>Gravel, sandy, brown..... 26<br>Marine deposits:<br>Clay, gray..... 15<br>Refusal..... 41                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                 |  |                          |                 |  |                          |                 |
| NEWMARKET 2. W17-4. Alt. 128 ft.<br>Lat. 43°04'58". Long. 70°58'24".<br>Ice-contact deposits:<br>Sand..... 57                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                 |  |                          |                 |  |                          |                 |
| NEWMARKET 4. W17-5. Alt. 40 ft.<br>Lat. 43°04'59". Long. 70°57'11".<br>Marine deposits:<br>Clay..... 30<br>Till:<br>Sand and rocks..... 8<br>Bedrock..... 200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                 |  |                          |                 |  |                          |                 |
| NORTH HAMPTON 1. X17-8. Alt. 110 ft.<br>Lat. 43°00'02". Long. 70°48'41".<br>Outwash and shore deposits:<br>Gravel..... 20<br>Marine deposits:<br>Clay and silt, gray..... 60<br>Bedrock..... 58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                 |  |                          |                 |  |                          |                 |
| NORTH HAMPTON 4. X16-1. Alt. 105 ft.<br>Lat. 42°57'56". Long. 70°50'21".<br>Ice-contact deposits:<br>Sand and gravel, silty..... 40<br>Bedrock..... 65                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                 |  |                          |                 |  |                          |                 |
| NORTH HAMPTON 6. X16-2. Alt. 122 ft.<br>Lat. 42°59'22". Long. 70°49'16".<br>Unconsolidated deposits,<br>undifferentiated:<br>Gravel..... 45<br>Clay..... 29<br>Not recorded..... 6<br>Bedrock..... 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                 |  |                          |                 |  |                          |                 |
| NORTH HAMPTON 8. X16-2. Alt. 65 ft.<br>Lat. 42°57'32". Long. 70°49'24".<br>Unconsolidated deposits,<br>undifferentiated..... 7<br>Ice-contact deposits:<br>Sand and gravel..... 35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |  |                          |                 |  |                          |                 |
| NORTH HAMPTON 10. X16-2. Alt. 83 ft.<br>Lat. 42°48'26". Long. 70°49'49".<br>Unconsolidated deposits,<br>undifferentiated..... 1<br>Bedrock:<br>Rock..... 174                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                 |  |                          |                 |  |                          |                 |
| NORTH HAMPTON 11. X16-1. Alt. 85 ft.<br>Lat. 42°59'28". Long. 70°50'42".<br>Ice-contact deposits:<br>Sand and gravel..... 74                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                 |  |                          |                 |  |                          |                 |
| NORTH HAMPTON 12. X16-1. Alt. 95 ft.<br>Lat. 42°58'17". Long. 70°50'43".<br>Unconsolidated deposits,<br>undifferentiated:<br>Gravel and bouldery material... 29<br>Bedrock..... 150                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                 |  |                          |                 |  |                          |                 |
| NORTH HAMPTON 13. X16-1. Alt. 65 ft.<br>Lat. 42°58'27". Long. 70°50'11".<br>Unconsolidated deposits,<br>undifferentiated:<br>Clay and boulders..... 10<br>Bedrock..... 40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |  |                          |                 |  |                          |                 |
| NORTH HAMPTON 14. X16-1. Alt. 108 ft.<br>Lat. 42°52'51". Long. 70°50'10".<br>Ice-contact deposits:<br>Sand and boulders..... 20<br>Bedrock..... 150                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                 |  |                          |                 |  |                          |                 |
| NORTH HAMPTON 15. X16-2. Alt. 85 ft.<br>Lat. 42°58'07". Long. 70°49'26".<br>Till..... 19<br>Bedrock..... 53                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |  |                          |                 |  |                          |                 |
| NORTH HAMPTON 16. X16-2. Alt. 85 ft.<br>Lat. 42°59'36". Long. 70°53'20".<br>Outwash and shore deposits:<br>Sand and gravel..... 12<br>Marine deposits:<br>Clay and gravel..... 7<br>Refusal..... 19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                 |  |                          |                 |  |                          |                 |
| NORTH HAMPTON 17. X16-2. Alt. 85 ft.<br>Lat. 42°59'39". Long. 70°53'24".<br>Outwash and shore deposits:<br>Sand and gravel..... 6<br>Marine deposits:<br>Clay..... 19<br>Refusal..... 25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                 |  |                          |                 |  |                          |                 |
| NORTH HAMPTON 18. X16-2. Alt. 87 ft.<br>Lat. 42°59'42". Long. 70°53'28".<br>Outwash and shore deposits:<br>Sand and gravel..... 12<br>Till:<br>Clay, sand, and gravel..... 17<br>Refusal..... 29                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                 |  |                          |                 |  |                          |                 |
| NORTH HAMPTON 19. X16-2. Alt. 95 ft.<br>Lat. 42°59'46". Long. 70°53'31".<br>Outwash and shore deposits:<br>Sand and gravel..... 12.3<br>Marine deposits:<br>Clay..... 5.5<br>Till:<br>Clay, sand, gravel, and<br>disintegrated bedrock..... 15.0<br>Refusal..... 32.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                 |  |                          |                 |  |                          |                 |
| NORTH HAMPTON 20. X16-2. Alt. 105 ft.<br>Lat. 42°59'54". Long. 70°53'31".<br>Outwash and shore deposits:<br>Sand..... 12.3<br>Marine deposits:<br>Clay..... 5.0<br>Clay and gravel..... 4.5<br>Refusal..... 21.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                 |  |                          |                 |  |                          |                 |
| NORTH HAMPTON 21. X16-2. Alt. 95 ft.<br>Lat. 42°59'52". Long. 70°53'16".<br>Ice-contact deposits:<br>Clay and gravel..... 11.3<br>Till:<br>Sand, gravel, and broken ledge 6.9<br>Refusal..... 18.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |  |                          |                 |  |                          |                 |
| FLAISTOW 7. V15-5. Alt. 285 ft.<br>Lat. 42°49'58". Long. 71°04'25".<br>Till..... 80<br>Bedrock..... 95                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                 |  |                          |                 |  |                          |                 |
| FLAISTOW 10. V15-4. Alt. 100 ft.<br>Lat. 42°49'54". Long. 71°06'15".<br>Geologist's log.<br>Outwash and shore deposits:<br>Sand, coarse to very coarse,<br>buff to brown; contains<br>scattered gravel, fine..... 4.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                 |  |                          |                 |  |                          |                 |
| FLAISTOW 11. V15-4. Alt. 95 ft.<br>Lat. 42°49'57". Long. 71°06'14".<br>Geologist's log.<br>Outwash and shore deposits:<br>Fill..... 1.0<br>Sand, very fine, and silt,<br>brown to olive-drab..... 9.0<br>Marine deposits:<br>Silt; some sand, very fine,<br>micaceous, laminated, brown.<br>Silt and clay, light gray with<br>brown streaks..... 3.0<br>Silt and clay, light gray-blue;<br>contains scattered pebbles.. 4.5                                                                                                                                                                                                                                                                                                                                                                                                      |                 |  |                          |                 |  |                          |                 |
| FLAISTOW 12. V15-1. Alt. 125 ft.<br>Lat. 42°51'35". Long. 71°05'48".<br>Geologist's log.<br>Outwash and shore deposits:<br>Loam, very sandy, brown..... 1.5<br>Sand, coarse to very coarse,<br>and gravel, micaceous, rusty<br>brown to brown; a few<br>pebbles, rounded to<br>subrounded..... 6.0<br>Sand, fine to medium,<br>micaceous, rusty brown to<br>brown..... 3.5<br>Sand, medium to coarse,<br>micaceous, rusty brown..... 4.0<br>Sand, very fine to fine,<br>micaceous, brown..... 4.0<br>Sand, fine to medium, brown;<br>some mica grains..... 6.0<br>Sand, very fine to fine,<br>interbedded with brown to<br>brownish-gray silt layers<br>about 1/2- to 1-inch thick... 7.0<br>Marine deposits:<br>Silt and clay, light gray-<br>blue; contains scattered<br>pebbles..... 8.0<br>Refusal (large pebbles)..... 40.0 |                 |  |                          |                 |  |                          |                 |
| FLAISTOW 13. V15-1. Alt. 90 ft.<br>Lat. 42°50'39". Long. 71°06'47".<br>Geologist's log.<br>Outwash and shore deposits:<br>Sand, fine to medium, brown;<br>contains many mafic mineral<br>grains and mica grains..... 11<br>Sand, medium to very coarse,<br>rounded to subrounded, tan<br>to brown; contains many dark<br>gray, slaty rock fragments.. 5<br>Sand, layers of medium sand<br>and very coarse sand,<br>rounded to subrounded, tan<br>to brown; contains many<br>dark-gray, slaty rock<br>fragments..... 6<br>Sand, fine to medium, brown;<br>contains many mica and mafic<br>mineral grains..... 5                                                                                                                                                                                                                   |                 |  |                          |                 |  |                          |                 |
| FLAISTOW 14. V15-1. Alt. 80 ft.<br>Lat. 42°50'33". Long. 71°06'12".<br>Marine deposits:<br>Silt and clay, plastic, light<br>blue-gray, contains<br>scattered angular gravel in<br>bottom 2 feet..... 13<br>Refusal..... 40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                 |  |                          |                 |  |                          |                 |
| FLAISTOW 15. V15-1. Alt. 95 ft.<br>Lat. 42°50'43". Long. 71°06'04".<br>Marine deposits:<br>Peat..... 1.2<br>Clay, sand; a little gravel... 5.8<br>Clay, gray; sand and gravel... 10.3<br>Clay, gray; sand..... 1.6<br>Clay, gray; sand and gravel... 4.8<br>Clay, gray..... 0.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                 |  |                          |                 |  |                          |                 |
| FLAISTOW 16. V15-1. Alt. 95 ft.<br>Lat. 42°50'43". Long. 71°06'04".<br>Marine deposits:<br>Hardpan..... 0.7<br>Bedrock..... 25.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                 |  |                          |                 |  |                          |                 |
| PORTSMOUTH 12. X17-8. Alt. 63 ft.<br>Lat. 43°01'30". Long. 70°47'38".<br>Ice-contact deposits:<br>Sand and gravel..... 18<br>Bedrock..... 199                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                 |  |                          |                 |  |                          |                 |

Table 4.--Logs of selected wells and test holes in southeastern New Hampshire--Continued

## ROCKINGHAM COUNTY (Continued)

|                                                                                                                                                                                                                                                                                                                                                                                                                           | Thick-<br>ness<br>(Feet) | Depth<br>(Feet) |                                                                                                                                                                                                                                                | Thick-<br>ness<br>(Feet) | Depth<br>(Feet) |                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Thick-<br>ness<br>(Feet) | Depth<br>(Feet) |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------------|
| <b>PORTSMOUTH 13.</b> X17-5. Alt. 58 ft.<br>Lat. 43°03'30". Long. 70°48'31".<br>Marine deposits:<br>Soil, sand, slightly gravelly,<br>brown (probably fill)..... 10.0 10.0<br>Clay, sandy, brown..... 10.0 20.0<br>Ice-contact deposits:<br>Sand, gray to white..... 20.0 40.0<br>Till:<br>Silt, sandy, gravelly, gray.... 10.0 50.0<br>Bedrock:<br>Rock, weathered, and silt,<br>sandy..... 4.5 54.5                     |                          |                 | <b>PORTSMOUTH 22.</b> X17-6. Alt. 38 ft.<br>Lat. 43°04'47". Long. 70°47'07".<br>Unconsolidated deposits,<br>undifferentiated:<br>Clay, gray..... 7 7<br>Till:<br>Silt, sandy, gravelly, gray... 19 26<br>Refusal..... 26                       |                          |                 | <b>RYE 18.</b> X17-8. Alt. 108 ft.<br>Lat. 43°00'11". Long. 70°48'07".<br>Ice-contact deposits:<br>Gravel, silty, sandy..... 8.0 8.0<br>Till:<br>Silt, sandy, gravelly, gray... 2.5 10.5<br>Refusal..... 10.5                                                                                                                                                                                                                                                 |                          |                 |
| <b>PORTSMOUTH 14.</b> X17-5. Alt. 75 ft.<br>Lat. 43°03'41". Long. 70°48'30".<br>Ice-contact deposits:<br>Sand, fine, slightly silty,<br>brown..... 30.0 30.0<br>Silt, sandy and gravelly..... 15.0 45.0<br>Sand, fine, appears well-<br>graded, brown..... 20.0 65.0<br>Till:<br>Sand and broken bedrock<br>fragments..... 5.5 70.5<br>Refusal..... 70.5                                                                  |                          |                 | <b>PORTSMOUTH 23.</b> X17-5. Alt. 75 ft.<br>Lat. 43°04'48". Long. 70°49'00".<br>Ice-contact deposits:<br>Sand, silty, fine, and clay<br>lenses, brown..... 37 37<br>Gravel, sandy, coarse, brown.. 9 46<br>Refusal (in gravel, coarse)..... 46 |                          |                 | <b>RYE 19.</b> X17-9. Alt. 85 ft.<br>Lat. 43°00'06". Long. 70°47'27".<br>(Drilled in gravel pit about<br>15 feet below original land<br>surface.)<br>Ice-contact deposits:<br>Sand, fine, hard, yellow clay. 20.6 20.6<br>Gravel, clay, broken bedrock<br>fragments..... 5.6 26.2<br>Sand, fine..... 5.7 31.9<br>Gravel and broken bedrock<br>fragments..... 4.9 36.8<br>Refusal..... 36.8                                                                    |                          |                 |
| <b>PORTSMOUTH 15.</b> X17-5. Alt. 60 ft.<br>Lat. 43°03'57". Long. 70°48'18".<br>Ice-contact deposits:<br>Sand, coarse, and clay seams,<br>brown..... 20 20<br>Sand, coarse, slightly<br>gravelly, and clay seams,<br>brown..... 5 25<br>Gravel, sandy, brown..... 10 35<br>Sand, coarse, gravelly, brown.. 10 45<br>Till:<br>Sand, silty, gravelly, and<br>broken bedrock fragments,<br>gray..... 2 47<br>Refusal..... 47 |                          |                 | <b>PORTSMOUTH 24.</b> X17-5. Alt. 65 ft.<br>Lat. 43°04'30". Long. 70°49'11".<br>Ice-contact deposits:<br>Gravel, sandy, brown..... 39 39<br>Refusal (in gravel, coarse)..... 39                                                                |                          |                 | <b>RYE 20.</b> X16-3. Alt. 70 ft.<br>Lat. 42°59'58". Long. 70°47'26".<br>(Drilled in gravel pit about<br>20 feet below original land<br>surface.)<br>Ice-contact deposits:<br>Sand and gravel..... 11.0 11.0<br>Sand, gravel, clay, and<br>broken bedrock fragments.... 8.0 19.0<br>Sand, fine, and gravel..... 6.0 25.0<br>Sand, coarse, and gravel..... 6.0 31.0<br>Gravel and sand..... 11.3 42.3<br>Gravel and broken bedrock<br>fragments..... 10.5 52.8 |                          |                 |
| <b>PORTSMOUTH 16.</b> X17-5. Alt. 45 ft.<br>Lat. 43°03'50". Long. 70°47'48".<br>Unconsolidated deposits,<br>undifferentiated:<br>Gravel, coarse, silty, sandy,<br>brown..... 12 12<br>Bedrock..... 3 15                                                                                                                                                                                                                   |                          |                 | <b>PORTSMOUTH 25.</b> X17-9. Alt. 35 ft.<br>Lat. 43°01'12". Long. 70°47'05".<br>Till:<br>Clay, sand, gravel, and broken<br>bedrock fragments..... 10.4 10.4<br>Clay and gravel, fine..... 19.8 30.2<br>Refusal..... 30.2                       |                          |                 | <b>RYE 21.</b> X17-9. Alt. 40 ft.<br>Lat. 43°00'55". Long. 70°46'30".<br>Till:<br>Clay, glacial..... 20.9 20.9<br>Sand and gravel..... 9.3 30.2<br>Refusal..... 30.2                                                                                                                                                                                                                                                                                          |                          |                 |
| <b>PORTSMOUTH 17.</b> X17-5. Alt. 57 ft.<br>Lat. 43°03'57". Long. 70°48'18".<br>Ice-contact deposits:<br>Sand, coarse, brown, and clay<br>seams..... 20 20<br>Sand, gravelly, and gravel,<br>sandy, brown..... 24 44<br>Refusal..... 44                                                                                                                                                                                   |                          |                 | <b>RYE 3.</b> X17-8. Alt. 110 ft.<br>Lat. 43°00'16". Long. 70°48'22".<br>Ice-contact deposits:<br>Sand and gravel..... 90 90<br>Clay..... 47 137<br>Bedrock..... 22 159                                                                        |                          |                 | <b>SEABROOK 9.</b> X15-1. Alt. 65 ft.<br>Lat. 42°52'14". Long. 70°51'49".<br>Ice-contact deposits:<br>Gravel..... 12 12<br>Bedrock..... 138 150                                                                                                                                                                                                                                                                                                               |                          |                 |
| <b>PORTSMOUTH 18.</b> X17-5. Alt. 53 ft.<br>Lat. 43°03'59". Long. 70°48'15".<br>Ice-contact deposits:<br>Sand, gravelly, gray..... 10.0 10.0<br>Sand, fine, and clay lenses,<br>gray..... 31.5 41.5<br>Refusal..... 41.5                                                                                                                                                                                                  |                          |                 | <b>RYE 4.</b> X16-3. Alt. 63 ft.<br>Lat. 42°59'51". Long. 70°46'45".<br>Ice-contact deposits:<br>Sand..... 65 65<br>Bedrock..... 120 185                                                                                                       |                          |                 | <b>SEABROOK 10.</b> X15-1. Alt. 65 ft.<br>Lat. 42°52'14". Long. 70°51'49".<br>Ice-contact deposits:<br>Gravel..... 12 12<br>Bedrock..... 138 150                                                                                                                                                                                                                                                                                                              |                          |                 |
| <b>PORTSMOUTH 19.</b> X17-5. Alt. 57 ft.<br>Lat. 43°04'00". Long. 70°48'18".<br>Ice-contact deposits:<br>Sand, fine, silty, and clay<br>lenses..... 33 33<br>Refusal..... 33                                                                                                                                                                                                                                              |                          |                 | <b>RYE 5.</b> X17-9. Alt. 85 ft.<br>Lat. 43°00'30". Long. 70°47'21".<br>Ice-contact deposits:<br>Gravel..... 30 30<br>Bedrock..... 56 86                                                                                                       |                          |                 | <b>SEABROOK 11.</b> X16-9. Alt. 45 ft.<br>Lat. 42°53'26". Long. 70°52'36".<br>Outwash and shore deposits:<br>Loam and subsoil..... 4.0 4.0<br>Sand, coarse, brown..... 0.5 4.5<br>Sand and clay, light brown... 6.0 10.5<br>Marine deposits:<br>Clay, hard, gray..... 5.2 15.7<br>Clay, gray, and broken stones. 0.8 16.5<br>Bedrock..... 16.5                                                                                                                |                          |                 |
| <b>PORTSMOUTH 20.</b> X17-5. Alt. 48 ft.<br>Lat. 43°04'04". Long. 70°48'15".<br>Ice-contact deposits:<br>Sand, fine, and clay lenses,<br>brown..... 24 24<br>Refusal..... 24                                                                                                                                                                                                                                              |                          |                 | <b>RYE 6.</b> Y17-4. Alt. 25 ft.<br>Lat. 43°02'36". Long. 70°44'51".<br>Till:<br>Hardpan, blue..... 11 11<br>Bedrock..... 49 60                                                                                                                |                          |                 | <b>SEABROOK 12.</b> W16-9. Alt. 45 ft.<br>Lat. 42°53'26". Long. 70°52'36".<br>Outwash and shore deposits:<br>Loam..... 0.5 0.5<br>Sand, coarse; some gravel,<br>fine..... 4.0 4.5<br>Sand and clay, gray..... 1.2 5.7<br>Sand and gravel, light brown.. 2.8 8.5<br>Marine deposits:<br>Clay, brown..... 2.0 10.5<br>Sand, fine, and clay, gray... 14.5 25.0<br>Till:<br>Sand, gravel, and clay, gray.. 3.7 28.7<br>Refusal..... 28.7                          |                          |                 |
| <b>PORTSMOUTH 21.</b> X17-5. Alt. 63 ft.<br>Lat. 43°03'53". Long. 70°48'14".<br>Ice-contact deposits:<br>Sand, gravelly, and gravel,<br>coarse, sandy, gray-brown.... 23 23<br>Refusal (in gravel, coarse)..... 23                                                                                                                                                                                                        |                          |                 | <b>RYE 7.</b> X17-9. Alt. 100 ft.<br>Lat. 43°00'08". Long. 70°47'29".<br>Ice-contact deposits:<br>Sand and gravel..... 80 80                                                                                                                   |                          |                 | <b>SEABROOK 13.</b> W16-9. Alt. 47 ft.<br>Lat. 42°53'27". Long. 70°52'39".<br>Outwash and shore deposits:<br>Loam..... 0.5 0.5<br>Sand, coarse; some gravel,<br>fine..... 4.0 4.5<br>Sand and clay, gray..... 1.2 5.7<br>Sand and gravel, light brown.. 2.8 8.5<br>Marine deposits:<br>Clay, brown..... 2.0 10.5<br>Sand, fine, and clay, gray... 14.5 25.0<br>Till:<br>Sand, gravel, and clay, gray.. 3.7 28.7<br>Refusal..... 28.7                          |                          |                 |

Table 4.--Logs of selected wells and test holes in southeastern New Hampshire--Continued

## ROCKINGHAM COUNTY (Continued)

| Thick-<br>ness<br>(Feet)                                            | Depth<br>(Feet) |      | Thick-<br>ness<br>(Feet)                                             | Depth<br>(Feet) |      | Thick-<br>ness<br>(Feet)                                                 | Depth<br>(Feet) |     |
|---------------------------------------------------------------------|-----------------|------|----------------------------------------------------------------------|-----------------|------|--------------------------------------------------------------------------|-----------------|-----|
| SEABROOK 14. W16-9. Alt. 50 ft.<br>Lat. 42°53'29". Long. 70°52'41". |                 |      | SEABROOK 19.--Continued                                              |                 |      | SOUTH HAMPTON 1. W16-7. Alt. 188 ft.<br>Lat. 42°52'56". Long. 70°57'52". |                 |     |
| Outwash and shore deposits:                                         |                 |      | Marine deposits:                                                     |                 |      | Unconsolidated deposits,                                                 |                 |     |
| Peat.....                                                           | 1.7             | 1.7  | Sand, fine, and clay, brown...                                       | 2.0             | 8.0  | undifferentiated:                                                        |                 |     |
| Sand, light brown; some gravel,<br>fine.....                        | 7.3             | 9.0  | Sand, gray, changing to sand,<br>fine, and clay.....                 | 14.6            | 22.6 | Sand, fine, yellow, and gravel                                           | 40              | 40  |
| Marine deposits:                                                    |                 |      | Clay, hard, brown.....                                               | 3.4             | 26.0 | Bedrock.....                                                             | 35              | 75  |
| Clay, hard, brown.....                                              | 4.0             | 13.0 | Ice-contact deposits:                                                |                 |      | SOUTH HAMPTON 3. W15-1. Alt. 87 ft.<br>Lat. 42°52'25". Long. 70°57'41".  |                 |     |
| Sand, fine, brown.....                                              | 1.3             | 14.3 | Sand, medium, gray; some<br>gravel, fine.....                        | 15.0            | 41.0 | Marine deposits:                                                         |                 |     |
| Sand, fine, and clay, gray;<br>changing to clay, gray.....          | 8.2             | 22.5 | Till:                                                                |                 |      | Silt and clay.....                                                       | 52              | 52  |
| Clay, soft, gray.....                                               | 18.5            | 41.0 | Sand, gravel, and clay, gray..                                       | 2.5             | 43.5 | Bedrock.....                                                             | 1               | 53  |
| Till:                                                               |                 |      | Refusal.....                                                         | 43.5            |      |                                                                          |                 |     |
| Sand and gravel, sharp, and<br>clay, gray.....                      | 2.0             | 43.0 | SEABROOK 20. X15-1. Alt. 18 ft.<br>Lat. 42°52'19". Long. 70°50'37".  |                 |      | SOUTH HAMPTON 4. W16-8. Alt. 250 ft.<br>Lat. 42°53'52". Long. 70°56'06". |                 |     |
| Refusal.....                                                        |                 | 43.0 | Outwash and shore deposits:                                          |                 |      | Till:                                                                    |                 |     |
| SEABROOK 15. W16-9. Alt. 54 ft.<br>Lat. 42°53'34". Long. 70°52'35". |                 |      | Sand, medium-coarse.....                                             | 10.0            | 10.0 | Clay and boulders.....                                                   | 100             | 100 |
| Outwash and shore deposits:                                         |                 |      | Sand and gravel; cemented<br>layer at 19 feet.....                   | 9.0             | 19.0 | Bedrock.....                                                             | 100             | 200 |
| Sand and gravel, brown.....                                         | 14.0            | 14.0 | Marine deposits:                                                     |                 |      | SOUTH HAMPTON 5. W16-7. Alt. 130 ft.<br>Lat. 42°53'29". Long. 70°58'56". |                 |     |
| Marine deposits:                                                    |                 |      | Sand, fine, and clay, gray....                                       | 28.5            | 47.5 | Till:                                                                    |                 |     |
| Sand, fine, and clay, gray....                                      | 9.8             | 23.8 | Till:                                                                |                 |      | Gravel and clay.....                                                     | 56              | 56  |
| Sand, fine, and clay, gray;<br>changing to clay.....                | 10.2            | 34.0 | Sand, fine, and gravel, gray..                                       | 6.0             | 53.5 | Bedrock.....                                                             | 67              | 123 |
| Till:                                                               |                 |      | SEABROOK 21. W16-9. Alt. 100 ft.<br>Lat. 42°53'42". Long. 70°54'44". |                 |      | STRATHAM 12. W16-3. Alt. 170 ft.<br>Lat. 42°59'18". Long. 70°54'38".     |                 |     |
| Sand and gravel, sharp, and<br>clay, blue.....                      | 10.3            | 44.3 | Ice-contact deposits:                                                |                 |      | Till:                                                                    |                 |     |
| Unreported.....                                                     | 0.7             | 45.0 | Sand and gravel.....                                                 | 23.3            | 23.3 | Clay and rocks.....                                                      | 125             | 125 |
| Refusal.....                                                        |                 | 45.0 | Sand and gravel, fine.....                                           | 10.6            | 33.9 | Bedrock.....                                                             | 185             | 310 |
| SEABROOK 16. X16-7. Alt. 45 ft.<br>Lat. 42°53'37". Long. 70°51'54". |                 |      | Sand, coarse, and gravel.....                                        | 5.0             | 38.9 |                                                                          |                 |     |
| Outwash and shore deposits:                                         |                 |      | Sand and gravel, fine.....                                           | 10.2            | 49.1 | STRATHAM 13. W17-9. Alt. 140 ft.<br>Lat. 43°00'14". Long. 70°54'00".     |                 |     |
| Gravel, small.....                                                  | 8.0             | 8.0  | Till:                                                                |                 |      | Ice-contact deposits:                                                    |                 |     |
| Sand, fine, brown.....                                              | 5.0             | 13.0 | Sand and gravel, some clay....                                       | 5.7             | 54.8 | Gravel.....                                                              | 62              | 62  |
| Sand, fine, and clay, brown....                                     | 5.3             | 18.3 | Refusal.....                                                         |                 | 54.8 | Bedrock.....                                                             | 20              | 82  |
| Sand and clay, red-brown.....                                       | 1.5             | 19.8 | SEABROOK 22. W16-9. Alt. 50 ft.<br>Lat. 42°53'52". Long. 70°54'07".  |                 |      | STRATHAM 14. W17-9. Alt. 67 ft.<br>Lat. 43°01'43". Long. 70°54'40".      |                 |     |
| Marine deposits:                                                    |                 |      | Marine deposits:                                                     |                 |      | Unconsolidated deposits,                                                 |                 |     |
| Clay, light gray, and sand,<br>fine.....                            | 12.2            | 32.0 | Clay, brown.....                                                     | 8.0             | 8.0  | undifferentiated.....                                                    | 26              | 26  |
| Clay, dark brown.....                                               | 3.5             | 35.5 | Clay, gray.....                                                      | 27.9            | 35.9 | Bedrock.....                                                             | 14              | 40  |
| Sand, medium-fine, brown.....                                       | 1.5             | 37.0 | Ice-contact deposits:                                                |                 |      |                                                                          |                 |     |
| Sand, fine, and clay, gray....                                      | 5.0             | 42.0 | Sand and gravel, blue.....                                           | 5.1             | 41.0 | STRATHAM 15. W17-8. Alt. 37 ft.<br>Lat. 43°02'02". Long. 70°55'45".      |                 |     |
| Sand, fine, and clay in layers,<br>gray.....                        | 28.0            | 70.0 | SEABROOK 23. X15-1. Alt. 60 ft.<br>Lat. 42°52'29". Long. 70°51'18".  |                 |      | Unconsolidated deposits,                                                 |                 |     |
| Till:                                                               |                 |      | Ice-contact deposits:                                                |                 |      | undifferentiated:                                                        |                 |     |
| Sand, gravel, sharp, and clay,<br>gray.....                         | 7.9             | 77.9 | Sand and gravel, brown.....                                          | 7.1             | 7.1  | Clay and till.....                                                       | 100             | 100 |
| Gravel, sharp, gray, and<br>boulders; some clay.....                | 9.6             | 87.5 | Sand, fine, brown.....                                               | 5.2             | 12.3 | Bedrock.....                                                             | 148             | 248 |
| Sand and gravel, sharp, and<br>clay, gray.....                      | 6.8             | 94.3 | Sand, fine to medium, tight,<br>brown.....                           | 44.0            | 56.3 | STRATHAM 16. W17-9. Alt. 125 ft.<br>Lat. 43°00'59". Long. 70°53'12".     |                 |     |
| Refusal.....                                                        |                 | 94.3 | Till:                                                                |                 |      | Ice-contact deposits:                                                    |                 |     |
| SEABROOK 17. W16-9. Alt. 40 ft.<br>Lat. 42°53'01". Long. 70°52'48". |                 |      | Sand, fine to medium, and clay                                       | 5.0             | 61.3 | Sand and rocks.....                                                      | 28              | 28  |
| Outwash and shore deposits:                                         |                 |      | Bedrock.....                                                         |                 | 61.3 | Bedrock.....                                                             | 63              | 91  |
| Sand and gravel, light brown...                                     | 3.5             | 3.5  | SEABROOK 24. W16-9. Alt. 65 ft.<br>Lat. 42°53'58". Long. 70°54'31".  |                 |      | STRATHAM 18. W16-2. Alt. 65 ft.<br>Lat. 42°59'20". Long. 70°55'14".      |                 |     |
| Marine deposits:                                                    |                 |      | Marine deposits:                                                     |                 |      | Ice-contact deposits:                                                    |                 |     |
| Clay, gray.....                                                     | 18.2            | 21.7 | Clay.....                                                            | 7.1             | 7.1  | Sand, gravel, brown.....                                                 | 10              | 10  |
| Sand, fine, and clay, gray....                                      | 11.8            | 33.5 | Clay, gray.....                                                      | 10.8            | 17.9 | Sand, fine, brown.....                                                   | 11              | 21  |
| SEABROOK 18. X16-7. Alt. 43 ft.<br>Lat. 42°52'50". Long. 70°51'48". |                 |      | Clay, gray, and sand, fine....                                       | 16.6            | 34.5 | Sand, fine, brown and gray....                                           | 6               | 27  |
| Outwash and shore deposits:                                         |                 |      | Ice-contact deposits:                                                |                 |      | Till:                                                                    |                 |     |
| Sand, fine, brown.....                                              | 10.1            | 10.1 | Gravel, blue, sand, fine, and<br>clay, gray.....                     | 4.4             | 38.9 | Sand, coarse, gravel, sharp,<br>and clay, gray.....                      | 7               | 34  |
| Marine deposits:                                                    |                 |      | SEABROOK 25. W16-9. Alt. 70 ft.<br>Lat. 42°53'33". Long. 70°54'28".  |                 |      | Bedrock.....                                                             |                 | 34  |
| Sand, fine, brown, and clay,<br>gray.....                           | 5.2             | 15.3 | Outwash and shore deposits:                                          |                 |      | STRATHAM 19. W16-3. Alt. 130 ft.<br>Lat. 42°59'38". Long. 70°53'18".     |                 |     |
| Clay, gray.....                                                     | 14.8            | 30.1 | Sand, fine, brown.....                                               | 19.5            | 19.5 | Ice-contact deposits:                                                    |                 |     |
| Clay, gray, and sand.....                                           | 7.2             | 37.3 | Marine deposits:                                                     |                 |      | Sand, silty, slightly gravelly,<br>brown.....                            | 30              | 30  |
| Refusal.....                                                        |                 | 37.3 | Sand, fine; a little clay,<br>brown.....                             | 10.3            | 29.8 | Till:                                                                    |                 |     |
| SEABROOK 19. X15-1. Alt. 48 ft.<br>Lat. 42°52'07". Long. 70°51'35". |                 |      | Ice-contact deposits:                                                |                 |      | Silt, sandy, gravelly, gray...<br>Refusal.....                           | 4               | 34  |
| Outwash and shore deposits:                                         |                 |      | Sand, fine, brown.....                                               | 10.7            | 40.5 |                                                                          |                 |     |
| Loam.....                                                           | 1.0             | 1.0  | Till:                                                                |                 |      | STRATHAM 20. W17-9. Alt. 85 ft.<br>Lat. 43°00'01". Long. 70°53'08".      |                 |     |
| Sand, brown.....                                                    | 2.0             | 3.0  | Sand, gravel, and clay, gray..                                       | 12.2            | 52.7 | Ice-contact deposits:                                                    |                 |     |
| Sand and gravel.....                                                | 3.0             | 6.0  | Refusal.....                                                         |                 | 52.7 | Sand, silty, gravelly, brown..                                           | 25              | 25  |
|                                                                     |                 |      |                                                                      |                 |      | Refusal.....                                                             |                 | 25  |

Table 4.--Logs of selected wells and test holes in southeastern New Hampshire--Continued

## STAFFORD COUNTY

| Thick-<br>ness<br>(Feet)                                                                                                                                        | Depth<br>(Feet) |      | Thick-<br>ness<br>(Feet) | Depth<br>(Feet) |  | Thick-<br>ness<br>(Feet) | Depth<br>(Feet) |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------|--------------------------|-----------------|--|--------------------------|-----------------|--|
| <b>BARRINGTON 6.</b> W18-1. Alt. 200 ft.<br>Lat. 43°12'42". Long. 70°59'50".<br>Geologist's log.                                                                |                 |      |                          |                 |  |                          |                 |  |
| Outwash and shore deposits:                                                                                                                                     |                 |      |                          |                 |  |                          |                 |  |
| Road fill.....                                                                                                                                                  | 3               | 3    |                          |                 |  |                          |                 |  |
| Sand, medium to very coarse,<br>micaceous, gravel, and<br>pebbles, rounded to<br>subrounded, rusty brown to<br>brown, with some yellowish<br>brown streaks..... | 12              | 15   |                          |                 |  |                          |                 |  |
| Sand, medium to coarse,<br>micaceous, rusty brown to<br>yellow brown.....                                                                                       | 5               | 20   |                          |                 |  |                          |                 |  |
| Sand, fine to coarse, uniform,<br>micaceous, brown to buff<br>colored.....                                                                                      | 10              | 30   |                          |                 |  |                          |                 |  |
| Sand, fine to medium,<br>micaceous, buff colored to<br>light brown.....                                                                                         | 12              | 42   |                          |                 |  |                          |                 |  |
| Marine deposits:                                                                                                                                                |                 |      |                          |                 |  |                          |                 |  |
| Silt and clay, greenish-gray to<br>gray; a few medium to coarse<br>sand layers about 1 to 1½<br>inches thick.....                                               | 7               | 49   |                          |                 |  |                          |                 |  |
| <b>BARRINGTON 7.</b> W18-6. Alt. 175 ft.<br>Lat. 43°11'05". Long. 71°00'07".<br>Unconsolidated deposits,<br>undifferentiated.....                               |                 |      |                          |                 |  |                          |                 |  |
| Bedrock:                                                                                                                                                        |                 |      |                          |                 |  |                          |                 |  |
| Berwick formation.....                                                                                                                                          | 64              | 86   |                          |                 |  |                          |                 |  |
| <b>DOVER 3.</b> W18-5. Alt. 146.83 ft.<br>Lat. 43°11'17". Long. 70°55'37".<br>Ice-contact deposits:                                                             |                 |      |                          |                 |  |                          |                 |  |
| Gravel.....                                                                                                                                                     | 45.8            | 45.8 |                          |                 |  |                          |                 |  |
| <b>DOVER 4.</b> X18-7. Alt. 15 ft.<br>Lat. 43°07'42". Long. 70°50'20".<br>Marine deposits:                                                                      |                 |      |                          |                 |  |                          |                 |  |
| Sand, fine.....                                                                                                                                                 | 10              | 10   |                          |                 |  |                          |                 |  |
| Clay.....                                                                                                                                                       | 42              | 52   |                          |                 |  |                          |                 |  |
| Sand, fine.....                                                                                                                                                 | 10              | 62   |                          |                 |  |                          |                 |  |
| <b>DOVER 5.</b> W18-5. Alt. 142.38 ft.<br>Lat. 43°11'18". Long. 70°55'42".<br>Ice-contact deposits:                                                             |                 |      |                          |                 |  |                          |                 |  |
| Sand, medium to coarse.....                                                                                                                                     | 45              | 45   |                          |                 |  |                          |                 |  |
| Sand, very coarse, and gravel,<br>fine.....                                                                                                                     | 15              | 60   |                          |                 |  |                          |                 |  |
| Gravel.....                                                                                                                                                     | 15              | 75   |                          |                 |  |                          |                 |  |
| Sand, very fine.....                                                                                                                                            | 27              | 102  |                          |                 |  |                          |                 |  |
| Bedrock.....                                                                                                                                                    |                 | 102  |                          |                 |  |                          |                 |  |
| <b>DOVER 6.</b> W18-3. Alt. 180 ft.<br>Lat. 43°13'05". Long. 70°53'25".<br>Ice-contact deposits:                                                                |                 |      |                          |                 |  |                          |                 |  |
| Soil and disturbed material....                                                                                                                                 | 5               | 5    |                          |                 |  |                          |                 |  |
| Sand, fine.....                                                                                                                                                 | 25              | 30   |                          |                 |  |                          |                 |  |
| Sand, fine to coarse.....                                                                                                                                       | 20              | 50   |                          |                 |  |                          |                 |  |
| Sand, coarse, and gravel.....                                                                                                                                   | 35              | 85   |                          |                 |  |                          |                 |  |
| Till:                                                                                                                                                           |                 |      |                          |                 |  |                          |                 |  |
| Sand and clay.....                                                                                                                                              | 5               | 90   |                          |                 |  |                          |                 |  |
| <b>DOVER 8.</b> W18-6. Alt. 97.40 ft.<br>Lat. 43°10'26". Long. 70°54'07".<br>Outwash and shore deposits:                                                        |                 |      |                          |                 |  |                          |                 |  |
| Loam, sandy.....                                                                                                                                                | 6               | 6    |                          |                 |  |                          |                 |  |
| Marine deposits:                                                                                                                                                |                 |      |                          |                 |  |                          |                 |  |
| Clay, brown.....                                                                                                                                                | 19              | 25   |                          |                 |  |                          |                 |  |
| Clay, gray.....                                                                                                                                                 | 8               | 33   |                          |                 |  |                          |                 |  |
| Clay, sandy, gravelly.....                                                                                                                                      | 12              | 45   |                          |                 |  |                          |                 |  |
| Ice-contact deposits:                                                                                                                                           |                 |      |                          |                 |  |                          |                 |  |
| Gravel, sandy.....                                                                                                                                              | 10              | 55   |                          |                 |  |                          |                 |  |
| Sand, fine.....                                                                                                                                                 | 8.5             | 63.5 |                          |                 |  |                          |                 |  |
| Refusal.....                                                                                                                                                    |                 | 63.5 |                          |                 |  |                          |                 |  |
| <b>DOVER 12.</b> W18-6. Alt. 106.02 ft.<br>Lat. 43°10'20". Long. 70°54'32".<br>Marine deposits:                                                                 |                 |      |                          |                 |  |                          |                 |  |
| Loam and clay.....                                                                                                                                              | 7               | 7    |                          |                 |  |                          |                 |  |
| Clay with a little sand, coarse                                                                                                                                 | 23              | 30   |                          |                 |  |                          |                 |  |
| Ice-contact deposits:                                                                                                                                           |                 |      |                          |                 |  |                          |                 |  |
| Sand, coarse.....                                                                                                                                               | 2               | 32   |                          |                 |  |                          |                 |  |
| Refusal.....                                                                                                                                                    |                 | 32   |                          |                 |  |                          |                 |  |
| <b>DOVER 13.</b> W18-6. Alt. 95 ft.<br>Lat. 43°10'23". Long. 70°54'35".<br>Marine deposits:                                                                     |                 |      |                          |                 |  |                          |                 |  |
| Peat.....                                                                                                                                                       | 5               | 5    |                          |                 |  |                          |                 |  |
| Clay.....                                                                                                                                                       | 21              | 26   |                          |                 |  |                          |                 |  |
| Ice-contact deposits:                                                                                                                                           |                 |      |                          |                 |  |                          |                 |  |
| Gravel, sandy.....                                                                                                                                              | 4               | 30   |                          |                 |  |                          |                 |  |
| Refusal.....                                                                                                                                                    |                 | 30   |                          |                 |  |                          |                 |  |
| <b>DOVER 14.</b> W18-6. Alt. 105.27 ft.<br>Lat. 43°10'25". Long. 70°54'02".<br>Outwash and shore deposits:                                                      |                 |      |                          |                 |  |                          |                 |  |
| Topsoil.....                                                                                                                                                    | 3               | 3    |                          |                 |  |                          |                 |  |
| Sand.....                                                                                                                                                       | 7               | 10   |                          |                 |  |                          |                 |  |
| Marine deposits:                                                                                                                                                |                 |      |                          |                 |  |                          |                 |  |
| Clay, sandy.....                                                                                                                                                | 15              | 25   |                          |                 |  |                          |                 |  |
| Ice-contact deposits:                                                                                                                                           |                 |      |                          |                 |  |                          |                 |  |
| Gravel, rust-colored.....                                                                                                                                       | 10              | 35   |                          |                 |  |                          |                 |  |
| Sand and gravel.....                                                                                                                                            | 20              | 55   |                          |                 |  |                          |                 |  |
| Sand, fine and coarse (pumps<br>freely).....                                                                                                                    | 48              | 103  |                          |                 |  |                          |                 |  |
| Refusal.....                                                                                                                                                    |                 | 103  |                          |                 |  |                          |                 |  |
| <b>DOVER 15.</b> W18-6. Alt. 100 ft.<br>Lat. 43°10'26". Long. 70°53'59".<br>Outwash and shore deposits:                                                         |                 |      |                          |                 |  |                          |                 |  |
| Topsoil.....                                                                                                                                                    | 3               | 3    |                          |                 |  |                          |                 |  |
| Sand, fine.....                                                                                                                                                 | 7               | 10   |                          |                 |  |                          |                 |  |
| Marine deposits:                                                                                                                                                |                 |      |                          |                 |  |                          |                 |  |
| Clay, sandy.....                                                                                                                                                | 15              | 25   |                          |                 |  |                          |                 |  |
| Ice-contact deposits:                                                                                                                                           |                 |      |                          |                 |  |                          |                 |  |
| Sand and gravel.....                                                                                                                                            | 55              | 80   |                          |                 |  |                          |                 |  |
| Refusal.....                                                                                                                                                    |                 | 80   |                          |                 |  |                          |                 |  |
| <b>DOVER 16.</b> X18-7. Alt. 13 ft.<br>Lat. 43°07'52". Long. 70°50'21".<br>Ice-contact deposits:                                                                |                 |      |                          |                 |  |                          |                 |  |
| Sand, fine.....                                                                                                                                                 | 5               | 5    |                          |                 |  |                          |                 |  |
| Gravel, coarse.....                                                                                                                                             | 25              | 30   |                          |                 |  |                          |                 |  |
| Bedrock.....                                                                                                                                                    |                 | 30   |                          |                 |  |                          |                 |  |
| <b>DOVER 25.</b> W18-3. Alt. 203 ft.<br>Lat. 43°13'46". Long. 70°53'42".<br>Ice-contact deposits:                                                               |                 |      |                          |                 |  |                          |                 |  |
| Sand, coarse, brown.....                                                                                                                                        | 5               | 5    |                          |                 |  |                          |                 |  |
| Sand, fine, brown.....                                                                                                                                          | 5               | 10   |                          |                 |  |                          |                 |  |
| Sand, fine, gray.....                                                                                                                                           | 5               | 15   |                          |                 |  |                          |                 |  |
| Sand, fine, brown.....                                                                                                                                          | 10              | 25   |                          |                 |  |                          |                 |  |
| Gravel, coarse.....                                                                                                                                             | 3               | 28   |                          |                 |  |                          |                 |  |
| Sand, fine, brown.....                                                                                                                                          | 2               | 30   |                          |                 |  |                          |                 |  |
| Gravel, coarse, brown.....                                                                                                                                      | 8               | 38   |                          |                 |  |                          |                 |  |
| Sand, fine, gray.....                                                                                                                                           | 2               | 40   |                          |                 |  |                          |                 |  |
| Sand, coarse, gray.....                                                                                                                                         | 5               | 45   |                          |                 |  |                          |                 |  |
| Sand, coarse, brown.....                                                                                                                                        | 5               | 50   |                          |                 |  |                          |                 |  |
| Gravel, coarse, gray.....                                                                                                                                       | 10              | 60   |                          |                 |  |                          |                 |  |
| Sand, dark brown.....                                                                                                                                           | 5               | 65   |                          |                 |  |                          |                 |  |
| Sand, hard-packed.....                                                                                                                                          | 5               | 70   |                          |                 |  |                          |                 |  |
| Gravel, coarse.....                                                                                                                                             | 5               | 75   |                          |                 |  |                          |                 |  |
| Sand, brown.....                                                                                                                                                | 1               | 76   |                          |                 |  |                          |                 |  |
| Gravel, coarse, brown.....                                                                                                                                      | 2               | 78   |                          |                 |  |                          |                 |  |
| Sand, coarse, gray.....                                                                                                                                         | 2               | 80   |                          |                 |  |                          |                 |  |
| Till:                                                                                                                                                           |                 |      |                          |                 |  |                          |                 |  |
| Clay and sand, or hardpan....                                                                                                                                   | 27              | 107  |                          |                 |  |                          |                 |  |
| Bedrock.....                                                                                                                                                    |                 | 107  |                          |                 |  |                          |                 |  |
| <b>DOVER 30.</b> X18-4. Alt. 68 ft.<br>Lat. 43°12'08". Long. 70°52'29".<br>Unconsolidated deposits,<br>undifferentiated.....                                    |                 |      |                          |                 |  |                          |                 |  |
| Bedrock.....                                                                                                                                                    | 140             | 140  |                          |                 |  |                          |                 |  |
|                                                                                                                                                                 | 260             | 400  |                          |                 |  |                          |                 |  |
| <b>DOVER 32.</b> W18-2. Alt. 125 ft.<br>Lat. 43°12'34". Long. 70°56'08".<br>Marine deposits:                                                                    |                 |      |                          |                 |  |                          |                 |  |
| Topsoil.....                                                                                                                                                    | 1               | 1    |                          |                 |  |                          |                 |  |
| Clay and sand, fine.....                                                                                                                                        | 33              | 34   |                          |                 |  |                          |                 |  |
| Till:                                                                                                                                                           |                 |      |                          |                 |  |                          |                 |  |
| Sand, fine; some gravel and<br>clay.....                                                                                                                        | 3               | 37   |                          |                 |  |                          |                 |  |
| Refusal.....                                                                                                                                                    |                 | 37   |                          |                 |  |                          |                 |  |
| <b>DOVER 33.</b> W18-5. Alt. 130 ft.<br>Lat. 43°12'28". Long. 70°56'09".<br>Marine deposits:                                                                    |                 |      |                          |                 |  |                          |                 |  |
| Topsoil.....                                                                                                                                                    | 1               | 1    |                          |                 |  |                          |                 |  |
| Sand, fine, and some gravel...                                                                                                                                  | 4               | 5    |                          |                 |  |                          |                 |  |
| Clay and sand, fine.....                                                                                                                                        | 39              | 44   |                          |                 |  |                          |                 |  |
| Till:                                                                                                                                                           |                 |      |                          |                 |  |                          |                 |  |
| Clay, sand, and some gravel...                                                                                                                                  | 47              | 91   |                          |                 |  |                          |                 |  |
| Refusal.....                                                                                                                                                    |                 | 91   |                          |                 |  |                          |                 |  |
| <b>DOVER 34.</b> W18-5. Alt. 139 ft.<br>Lat. 43°11'46". Long. 70°56'02".<br>Marine deposits:                                                                    |                 |      |                          |                 |  |                          |                 |  |
| Topsoil.....                                                                                                                                                    | 2.0             | 2.0  |                          |                 |  |                          |                 |  |
| Clay, hard.....                                                                                                                                                 | 7.0             | 9.0  |                          |                 |  |                          |                 |  |
| Clay, soft.....                                                                                                                                                 | 16.0            | 25.0 |                          |                 |  |                          |                 |  |
| Till:                                                                                                                                                           |                 |      |                          |                 |  |                          |                 |  |
| Clay and sand.....                                                                                                                                              | 12.0            | 37.0 |                          |                 |  |                          |                 |  |
| Clay and sand; some gravel...                                                                                                                                   | 8.7             | 45.7 |                          |                 |  |                          |                 |  |
| Refusal.....                                                                                                                                                    |                 | 45.7 |                          |                 |  |                          |                 |  |
| <b>DOVER 35.</b> W18-5. Alt. 137 ft.<br>Lat. 43°11'54". Long. 70°56'12".<br>Marine deposits:                                                                    |                 |      |                          |                 |  |                          |                 |  |
| Loam.....                                                                                                                                                       | 1.0             | 1.0  |                          |                 |  |                          |                 |  |
| Clay, hard.....                                                                                                                                                 | 6.0             | 7.0  |                          |                 |  |                          |                 |  |
| Clay, soft.....                                                                                                                                                 | 51.0            | 58.0 |                          |                 |  |                          |                 |  |
| Clay and sand.....                                                                                                                                              | 16.0            | 74.0 |                          |                 |  |                          |                 |  |
| Silt and clay.....                                                                                                                                              | 11.0            | 85.0 |                          |                 |  |                          |                 |  |
| Till:                                                                                                                                                           |                 |      |                          |                 |  |                          |                 |  |
| Sand, fine, and gravel, fine,<br>sharp.....                                                                                                                     | 7.8             | 92.8 |                          |                 |  |                          |                 |  |
| Refusal.....                                                                                                                                                    |                 | 92.8 |                          |                 |  |                          |                 |  |
| <b>DOVER 36.</b> W18-5. Alt. 140 ft.<br>Lat. 43°11'56". Long. 70°56'22".<br>Ice-contact deposits:                                                               |                 |      |                          |                 |  |                          |                 |  |
| Sand and gravel, brown.....                                                                                                                                     | 25              | 25   |                          |                 |  |                          |                 |  |
| Sand and gravel, gray.....                                                                                                                                      | 55              | 80   |                          |                 |  |                          |                 |  |
| Sand, fine, gray.....                                                                                                                                           | 5               | 85   |                          |                 |  |                          |                 |  |
| Sand, fine; some clay.....                                                                                                                                      | 35              | 120  |                          |                 |  |                          |                 |  |
| Sand, gray.....                                                                                                                                                 | 25              | 145  |                          |                 |  |                          |                 |  |
| Sand, coarse, and gravel.....                                                                                                                                   | 21              | 166  |                          |                 |  |                          |                 |  |
| Bedrock.....                                                                                                                                                    |                 | 166  |                          |                 |  |                          |                 |  |
| <b>DOVER 37.</b> W18-5. Alt. 137 ft.<br>Lat. 43°11'58". Long. 70°56'23".<br>Marine deposits:                                                                    |                 |      |                          |                 |  |                          |                 |  |
| Loam.....                                                                                                                                                       | 1               | 1    |                          |                 |  |                          |                 |  |
| Clay, hard.....                                                                                                                                                 | 2               | 3    |                          |                 |  |                          |                 |  |
| Clay, soft.....                                                                                                                                                 | 25              | 28   |                          |                 |  |                          |                 |  |
| Ice-contact deposits:                                                                                                                                           |                 |      |                          |                 |  |                          |                 |  |
| Sand, fine; some clay.....                                                                                                                                      | 5               | 33   |                          |                 |  |                          |                 |  |
| Sand and gravel.....                                                                                                                                            | 22              | 55   |                          |                 |  |                          |                 |  |
| <b>DOVER 38.</b> W18-5. Alt. 137 ft.<br>Lat. 43°12'00". Long. 70°56'24".<br>Marine deposits:                                                                    |                 |      |                          |                 |  |                          |                 |  |
| Loam.....                                                                                                                                                       | 1.0             | 1.0  |                          |                 |  |                          |                 |  |
| Clay.....                                                                                                                                                       | 27.0            | 28.0 |                          |                 |  |                          |                 |  |
| Ice-contact deposits:                                                                                                                                           |                 |      |                          |                 |  |                          |                 |  |
| Sand, medium.....                                                                                                                                               | 4.0             | 32.0 |                          |                 |  |                          |                 |  |
| Sand, medium; some gravel....                                                                                                                                   | 5.5             | 37.5 |                          |                 |  |                          |                 |  |
| Sand, gravel; some clay.....                                                                                                                                    | 6.5             | 44.0 |                          |                 |  |                          |                 |  |
| Sand and gravel.....                                                                                                                                            | 11.0            | 55.0 |                          |                 |  |                          |                 |  |
| Sand, fine; gravel, scattered;<br>some clay.....                                                                                                                | 13              | 68   |                          |                 |  |                          |                 |  |
| Sand, fine; a little gravel...                                                                                                                                  | 10              | 78   |                          |                 |  |                          |                 |  |
| Sand, fine; some gravel.....                                                                                                                                    | 3               | 81   |                          |                 |  |                          |                 |  |
| Bedrock.....                                                                                                                                                    |                 | 81   |                          |                 |  |                          |                 |  |
| <b>DOVER 39.</b> W18-5. Alt. 135 ft.<br>Lat. 43°12'00". Long. 70°56'29".<br>Ice-contact deposits:                                                               |                 |      |                          |                 |  |                          |                 |  |
| Topsoil.....                                                                                                                                                    | 1.0             | 1.0  |                          |                 |  |                          |                 |  |
| Sand, coarse, and gravel, fine                                                                                                                                  | 20.0            | 21.0 |                          |                 |  |                          |                 |  |
| Sand.....                                                                                                                                                       | 9.5             | 30.5 |                          |                 |  |                          |                 |  |
| Sand, coarse; some gravel,<br>fine.....                                                                                                                         | 10.5            | 41.0 |                          |                 |  |                          |                 |  |
| Till:                                                                                                                                                           |                 |      |                          |                 |  |                          |                 |  |
| Clay and sand.....                                                                                                                                              | 31.0            | 72.0 |                          |                 |  |                          |                 |  |
| Refusal.....                                                                                                                                                    |                 | 72.0 |                          |                 |  |                          |                 |  |
| <b>DOVER 40.</b> W18-5. Alt. 138 ft.<br>Lat. 43°11'57". Long. 70°56'24".<br>Ice-contact deposits:                                                               |                 |      |                          |                 |  |                          |                 |  |
| Sand, coarse, and gravel....                                                                                                                                    | 60              | 60   |                          |                 |  |                          |                 |  |
| Sand, fine.....                                                                                                                                                 | 30              | 90   |                          |                 |  |                          |                 |  |
| Refusal.....                                                                                                                                                    |                 | 90   |                          |                 |  |                          |                 |  |
| <b>DOVER 41.</b> W18-5. Alt. 140 ft.<br>Lat. 43°11'57". Long. 70°56'29".<br>Ice-contact deposits:                                                               |                 |      |                          |                 |  |                          |                 |  |
| Sand, gravel, and boulders....                                                                                                                                  | 12              | 12   |                          |                 |  |                          |                 |  |
| Sand, coarse, and gravel.....                                                                                                                                   | 30              | 42   |                          |                 |  |                          |                 |  |
| Sand, fine, and gravel.....                                                                                                                                     | 36              | 78   |                          |                 |  |                          |                 |  |

Table 4.--Logs of selected wells and test holes in southeastern New Hampshire--Continued

## STRAFFORD COUNTY (Continued)

|                                                                                                                                              | Thick-<br>ness<br>(Feet) | Depth<br>(Feet) |  | Thick-<br>ness<br>(Feet) | Depth<br>(Feet) |                                                                                                                                       | Thick-<br>ness<br>(Feet) | Depth<br>(Feet) |
|----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------------|--|--------------------------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------------|
| DOVER 42. W18-2. Alt. 120 ft.<br>Lat. 43°13'15". Long. 70°56'43".<br>Unconsolidated deposits,<br>undifferentiated:<br>Clay and boulders..... | 31                       | 31              |  |                          |                 | DOVER 51. W18-6. Alt. 98.60 ft.<br>Lat. 43°10'17". Long. 70°54'22".<br>Outwash and shore deposits:<br>Sand, fine brown.....           | 36.5                     | 36.5            |
| Bedrock.....                                                                                                                                 |                          | 31              |  |                          |                 | Marine deposits:<br>Clay, blue.....                                                                                                   | 40                       | 76.5            |
| DOVER 43. W18-2. Alt. 156 ft.<br>Lat. 43°13'19". Long. 70°56'58".<br>Ice-contact deposits:<br>Sand.....                                      | 35.0                     | 35.0            |  |                          |                 | Ice-contact deposits:<br>Gravel, dirty.....                                                                                           | 2                        | 78.5            |
| Sand, fine.....                                                                                                                              | 5.0                      | 40.0            |  |                          |                 | Gravel, water-bearing.....                                                                                                            | 25                       | 103.5           |
| Clay and sand.....                                                                                                                           | 10.0                     | 50.0            |  |                          |                 | Bedrock.....                                                                                                                          | 103.5                    | 103.5           |
| Clay; some sand, fine.....                                                                                                                   | 92.5                     | 142.5           |  |                          |                 | DOVER 52. W18-6. Alt. 103.09 ft.<br>Lat. 43°10'20". Long. 70°54'16".<br>Outwash and shore deposits:<br>Sand, fine, brown, and clay... | 10                       | 10              |
| Bedrock.....                                                                                                                                 |                          | 142.5           |  |                          |                 | Sand, fine, brown.....                                                                                                                | 10                       | 20              |
| DOVER 44. W18-2. Alt. 160 ft.<br>Lat. 43°13'24". Long. 70°57'13".<br>Ice-contact deposits:<br>Sand and gravel.....                           | 63                       | 63              |  |                          |                 | Gravel, sandy.....                                                                                                                    | 5                        | 25              |
| Till:<br>Hardpan.....                                                                                                                        | 1                        | 64              |  |                          |                 | Sand, gray; clay, and gravel..                                                                                                        | 5                        | 30              |
| Bedrock.....                                                                                                                                 |                          | 64              |  |                          |                 | Marine deposits:<br>Clay, heavy; some sand and<br>gravel.....                                                                         | 3                        | 33              |
| DOVER 45. W18-6. Alt. 95 ft.<br>Lat. 43°10'38". Long. 70°54'47".<br>Outwash and shore deposits:<br>Sand, gravelly.....                       | 8                        | 8               |  |                          |                 | Ice-contact deposits:<br>Sand, fine, brown.....                                                                                       | 4                        | 37              |
| Marine deposits:<br>Clay, blue.....                                                                                                          | 45                       | 53              |  |                          |                 | Sand, fine, dark brown.....                                                                                                           | 3                        | 40              |
| Refusal.....                                                                                                                                 |                          | 53              |  |                          |                 | Sand, gravelly, brown.....                                                                                                            | 5                        | 45              |
| DOVER 46. W18-6. Alt. 90 ft.<br>Lat. 43°10'29". Long. 70°54'31".<br>Outwash and shore deposits:<br>Topsoil.....                              | 1                        | 1               |  |                          |                 | Sand, coarse, and gravel.....                                                                                                         | 8                        | 53              |
| Sand, fine.....                                                                                                                              | 19                       | 20              |  |                          |                 | Sand, fine, brown, and<br>gravel.....                                                                                                 | 7                        | 60              |
| Marine deposits:<br>Clay and sand.....                                                                                                       | 78                       | 98              |  |                          |                 | Sand, fine, brown.....                                                                                                                | 3                        | 63              |
| Ice-contact deposits:<br>Gravel, coarse, and sand; some<br>clay.....                                                                         | 7                        | 105             |  |                          |                 | Till:<br>Sand, clay, and gravel<br>(hardpan).....                                                                                     | 14                       | 77              |
| Refusal.....                                                                                                                                 |                          | 105             |  |                          |                 | Hardpan and boulders.....                                                                                                             | 5                        | 82              |
| DOVER 47. W18-6. Alt. 90 ft.<br>Lat. 43°10'29". Long. 70°54'30".<br>Outwash and shore deposits:<br>Topsoil.....                              | 2                        | 2               |  |                          |                 | Bedrock.....                                                                                                                          | 82                       | 82              |
| Sand, fine.....                                                                                                                              | 18                       | 20              |  |                          |                 | DOVER 53. W18-6. Alt. 100 ft.<br>Lat. 43°10'22". Long. 70°54'13".<br>Outwash and shore deposits:<br>Sand, fine, brown.....            | 15                       | 15              |
| Marine deposits:<br>Clay and sand.....                                                                                                       | 15                       | 35              |  |                          |                 | Marine deposits:<br>Clay, gray.....                                                                                                   | 30                       | 45              |
| Clay, blue.....                                                                                                                              | 60                       | 95              |  |                          |                 | Clay, sandy, gray-brown.....                                                                                                          | 4                        | 49              |
| Ice-contact deposits:<br>Clay and gravel.....                                                                                                | 2.3                      | 97.3            |  |                          |                 | Clay, gray.....                                                                                                                       | 20                       | 69              |
| Refusal.....                                                                                                                                 |                          | 97.3            |  |                          |                 | Ice-contact deposits:<br>Clay, sandy, gray-brown.....                                                                                 | 10                       | 79              |
| DOVER 48. W18-6. Alt. 88 ft.<br>Lat. 43°10'30". Long. 70°54'22".<br>Outwash and shore deposits:<br>Topsoil.....                              | 1                        | 1               |  |                          |                 | DOVER 54. W18-6. Alt. 97.11 ft.<br>Lat. 43°10'25". Long. 70°54'12".<br>Outwash and shore deposits:<br>Loam and sand, fine.....        | 6.5                      | 6.5             |
| Sand, medium, with some clay...                                                                                                              | 19                       | 20              |  |                          |                 | Marine deposits:<br>Clay, blue.....                                                                                                   | 45                       | 51.5            |
| Marine deposits:<br>Clay and sand.....                                                                                                       | 70                       | 90              |  |                          |                 | Ice-contact deposits:<br>Gravel and hardpan.....                                                                                      | 3                        | 54.5            |
| Clay and sand, fine; some<br>gravel.....                                                                                                     | 1                        | 91              |  |                          |                 | Sand, coarse, and gravel.....                                                                                                         | 39.2                     | 93.7            |
| Refusal.....                                                                                                                                 |                          | 91              |  |                          |                 | Sand, fine.....                                                                                                                       | 2.8                      | 96.5            |
| DOVER 49. W18-6. Alt. 87 ft.<br>Lat. 43°10'31". Long. 70°54'16".<br>Outwash and shore deposits:<br>Topsoil.....                              | 1                        | 1               |  |                          |                 | Bedrock.....                                                                                                                          | 96.5                     | 96.5            |
| Sand, medium; some clay.....                                                                                                                 | 16                       | 17              |  |                          |                 | DOVER 55. W18-6. Alt. 90 ft.<br>Lat. 43°10'27". Long. 70°53'54".<br>Marine deposits:<br>Sand, brown, and clay.....                    | 10                       | 10              |
| Marine deposits:<br>Clay and sand, fine.....                                                                                                 | 92                       | 109             |  |                          |                 | Clay, brown.....                                                                                                                      | 5                        | 15              |
| Rock, broken, and clay.....                                                                                                                  | 0.5                      | 109.5           |  |                          |                 | Clay, blue.....                                                                                                                       | 11                       | 26              |
| Refusal.....                                                                                                                                 |                          | 109.5           |  |                          |                 | Till:<br>Hardpan.....                                                                                                                 | 17                       | 43              |
| DOVER 50. W18-6. Alt. 107 ft.<br>Lat. 43°10'18". Long. 70°54'29".<br>Outwash and shore deposits:<br>Sand, fine.....                          | 19                       | 19              |  |                          |                 | Hardpan, brown.....                                                                                                                   | 16                       | 59              |
| Marine deposits:<br>Clay, hard, brown.....                                                                                                   | 2                        | 21              |  |                          |                 | Refusal.....                                                                                                                          | 59                       | 59              |
| Clay, gray.....                                                                                                                              | 10                       | 31              |  |                          |                 | DOVER 56. W18-6. Alt. 90 ft.<br>Lat. 43°10'27". Long. 70°53'51".<br>Marine deposits:<br>Clay, brown.....                              | 15                       | 15              |
| Ice-contact deposits:<br>Gravel and sand; some clay....                                                                                      | 7                        | 38              |  |                          |                 | Clay, gray.....                                                                                                                       | 28                       | 43              |
| Refusal.....                                                                                                                                 |                          | 38              |  |                          |                 | Till:<br>Clay and sand.....                                                                                                           | 5                        | 48              |
| DOVER 51. W18-6. Alt. 105 ft.<br>Lat. 43°10'30". Long. 70°53'32".<br>Ice-contact deposits:<br>Sand and gravel.....                           | 18                       | 18              |  |                          |                 | Refusal.....                                                                                                                          | 48                       | 48              |
| Refusal.....                                                                                                                                 |                          | 18              |  |                          |                 | DOVER 57. W18-6. Alt. 85 ft.<br>Lat. 43°10'33". Long. 70°53'44".<br>Marine deposits:<br>Topsoil and clay.....                         | 5                        | 5               |
| DOVER 52. W18-6. Alt. 125 ft.<br>Lat. 43°10'23". Long. 70°54'01".<br>Outwash and shore deposits:<br>Sand, fine, gray-brown.....              | 5                        | 5               |  |                          |                 | Till:<br>Clay and hardpan, sandy.....                                                                                                 | 2                        | 7               |
| Sand, fine, brown.....                                                                                                                       | 5                        | 10              |  |                          |                 | Refusal.....                                                                                                                          | 7                        | 7               |
| Marine deposits:<br>Clay, gray.....                                                                                                          | 5                        | 15              |  |                          |                 | DOVER 58. W18-6. Alt. 105 ft.<br>Lat. 43°10'30". Long. 70°53'32".<br>Ice-contact deposits:<br>Sand and gravel.....                    | 18                       | 18              |
| Ice-contact deposits:<br>Sand, fine, brown.....                                                                                              | 30                       | 45              |  |                          |                 | Refusal.....                                                                                                                          | 18                       | 18              |
| Sand, coarse, brown.....                                                                                                                     | 20                       | 65              |  |                          |                 | DOVER 59. W18-6. Alt. 95 ft.<br>Lat. 43°10'27". Long. 70°53'02".<br>Marine deposits:<br>Topsoil.....                                  | 2                        | 2               |
| Sand, well-graded, brown.....                                                                                                                | 10                       | 75              |  |                          |                 | Clay.....                                                                                                                             | 38                       | 40              |
| Sand, fine, brown.....                                                                                                                       | 15                       | 90              |  |                          |                 | Clay, sandy.....                                                                                                                      | 17                       | 57              |
| Sand, coarse, red-brown.....                                                                                                                 | 3                        | 93              |  |                          |                 | DOVER 61. W18-9. Alt. 80 ft.<br>Lat. 43°09'49". Long. 70°53'48".<br>Marine deposits:<br>Clay, silty, gray.....                        | 22                       | 22              |
| Sand, brown.....                                                                                                                             | 2                        | 95              |  |                          |                 | Ice-contact deposits:<br>Sand, fine, brown.....                                                                                       | 31                       | 53              |
| Sand, coarse, brown.....                                                                                                                     | 5                        | 100             |  |                          |                 | Sand, fine, silty, gray.....                                                                                                          | 25                       | 78              |
| Sand, coarse, red-brown.....                                                                                                                 | 5                        | 105             |  |                          |                 | Sand, gravelly.....                                                                                                                   | 1                        | 79              |
| Sand, coarse, brown, and<br>gravel.....                                                                                                      | 1                        | 106             |  |                          |                 | Till:<br>Clay, sandy, fine, gray.....                                                                                                 | 6                        | 85              |
| DOVER 60. W18-6. Alt. 95 ft.<br>Lat. 43°10'27". Long. 70°53'02".<br>Marine deposits:<br>Topsoil.....                                         | 2                        | 2               |  |                          |                 | Refusal.....                                                                                                                          | 85                       | 85              |
| Clay.....                                                                                                                                    | 38                       | 40              |  |                          |                 | DOVER 62. W18-9. Alt. 60 ft.<br>Lat. 43°09'44". Long. 70°53'24".<br>Marine deposits:<br>Topsoil.....                                  | 2                        | 2               |
| Clay, sandy.....                                                                                                                             | 17                       | 57              |  |                          |                 | Clay.....                                                                                                                             | 20                       | 22              |
| DOVER 61. W18-9. Alt. 80 ft.<br>Lat. 43°09'49". Long. 70°53'48".<br>Marine deposits:<br>Clay, silty, gray.....                               | 22                       | 22              |  |                          |                 | Unconsolidated deposits,<br>undifferentiated:<br>Sand, silty; some clay.....                                                          | 113                      | 135             |
| Ice-contact deposits:<br>Sand, fine, brown.....                                                                                              | 31                       | 53              |  |                          |                 | Refusal.....                                                                                                                          | 135                      | 135             |
| Sand, fine, silty, gray.....                                                                                                                 | 25                       | 78              |  |                          |                 | DOVER 63. W18-9. Alt. 70 ft.<br>Lat. 43°09'37". Long. 70°53'32".<br>Marine deposits:<br>Topsoil.....                                  | 3                        | 3               |
| Sand, gravelly.....                                                                                                                          | 1                        | 79              |  |                          |                 | Clay.....                                                                                                                             | 21                       | 24              |
| DOVER 62. W18-9. Alt. 60 ft.<br>Lat. 43°09'44". Long. 70°53'24".<br>Marine deposits:<br>Topsoil.....                                         | 2                        | 2               |  |                          |                 | Ice-contact deposits:<br>Sand and gravel.....                                                                                         | 18                       | 42              |
| Clay.....                                                                                                                                    | 20                       | 22              |  |                          |                 | Sand, fine, silty.....                                                                                                                | 35                       | 77              |
| Unconsolidated deposits,<br>undifferentiated:<br>Sand, silty; some clay.....                                                                 | 113                      | 135             |  |                          |                 | DOVER 64. W18-9. Alt. 65 ft.<br>Lat. 43°08'10". Long. 70°50'14".<br>Unconsolidated deposits,<br>undifferentiated.....                 | 20                       | 20              |
| Refusal.....                                                                                                                                 | 135                      | 135             |  |                          |                 | Bedrock.....                                                                                                                          | 111                      | 131             |
| DOVER 63. W18-9. Alt. 70 ft.<br>Lat. 43°09'37". Long. 70°53'32".<br>Marine deposits:<br>Topsoil.....                                         | 3                        | 3               |  |                          |                 | DOVER 65. W18-9. Alt. 60 ft.<br>Lat. 43°09'19". Long. 70°51'50".<br>Unconsolidated deposits,<br>undifferentiated.....                 | 21                       | 21              |
| Clay.....                                                                                                                                    | 21                       | 24              |  |                          |                 | Bedrock.....                                                                                                                          | 77                       | 98              |
| Ice-contact deposits:<br>Sand and gravel.....                                                                                                | 18                       | 42              |  |                          |                 | DOVER 66. W18-6. Alt. 105 ft.<br>Lat. 43°12'11". Long. 70°54'00".<br>Unconsolidated deposits,<br>undifferentiated.....                | 20                       | 20              |
| Sand, fine, silty.....                                                                                                                       | 35                       | 77              |  |                          |                 | Bedrock.....                                                                                                                          | 161                      | 181             |
| DOVER 64. W18-9. Alt. 65 ft.<br>Lat. 43°08'10". Long. 70°50'14".<br>Unconsolidated deposits,<br>undifferentiated.....                        | 20                       | 20              |  |                          |                 | DOVER 67. W18-4. Alt. 130 ft.<br>Lat. 43°11'22". Long. 70°51'27".<br>Unconsolidated deposits,<br>undifferentiated.....                | 46                       | 46              |
| Bedrock.....                                                                                                                                 | 111                      | 131             |  |                          |                 | Bedrock (Trap rock).....                                                                                                              | 83                       | 129             |
| DOVER 65. W18-9. Alt. 60 ft.<br>Lat. 43°09'19". Long. 70°51'50".<br>Unconsolidated deposits,<br>undifferentiated.....                        | 21                       | 21              |  |                          |                 | DOVER 68. W18-4. Alt. 45 ft.<br>Lat. 43°10'35". Long. 70°50'51".<br>Unconsolidated deposits,<br>undifferentiated.....                 | 20                       | 20              |
| Bedrock.....                                                                                                                                 | 77                       | 98              |  |                          |                 | Bedrock.....                                                                                                                          | 47                       | 67              |

Table 4.--Logs of selected wells and test holes in southeastern New Hampshire--Continued

## STRAFFORD COUNTY (Continued)

| Thick-<br>ness<br>(Feet)                                                                                                                                  | Depth<br>(Feet) |     | Thick-<br>ness<br>(Feet)                                                                                                     | Depth<br>(Feet) |       | Thick-<br>ness<br>(Feet)                                                                                                                  | Depth<br>(Feet) |      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----|------------------------------------------------------------------------------------------------------------------------------|-----------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------|
| DOVER 69. W18-9. Alt. 125 ft.<br>Lat. 43°09'43". Long. 70°52'31".<br>Unconsolidated deposits,<br>undifferentiated.....                                    | 40              | 40  | DOVER 80. W18-3. Alt. 203 ft.<br>Lat. 43°13'43". Long. 70°53'53".<br>Ice-contact deposits:<br>Sand and gravel.....           | 90              | 90    | DURHAM 11. W18-7. Alt. 80 ft.<br>Lat. 43°07'42". Long. 70°57'50".<br>Marine deposits:<br>Topsoil.....                                     | 4.0             | 4.0  |
| Bedrock.....                                                                                                                                              | 89              | 129 | Bedrock.....                                                                                                                 | 505             | 595   | Clay, blue.....                                                                                                                           | 19.0            | 23.0 |
| DOVER 70. X18-7. Alt. 80 ft.<br>Lat. 43°09'45". Long. 70°51'58".<br>Unconsolidated deposits,<br>undifferentiated.....                                     | 20              | 20  | DOVER 81. W18-5. Alt. 145 ft.<br>Lat. 43°11'11". Long. 70°55'29".<br>Marine deposits:<br>Sand, fine.....                     | 30.0            | 30.0  | Sand, fine, brown.....                                                                                                                    | 4.0             | 27.0 |
| Bedrock.....                                                                                                                                              | 20              | 40  | Sand and clay.....                                                                                                           | 57.5            | 87.5  | Clay, blue.....                                                                                                                           | 8.0             | 35.0 |
| DOVER 71. W18-6. Alt. 55 ft.<br>Lat. 43°11'35". Long. 70°52'36".<br>Unconsolidated deposits,<br>undifferentiated.....                                     | 25              | 25  | DOVER 82. W18-9. Alt. 100 ft.<br>Lat. 43°09'52". Long. 70°53'59".<br>Outwash and shore deposits:<br>Clay and sand, gray..... | 10              | 10    | Sand, fine, brown.....                                                                                                                    | 5.0             | 40.0 |
| Bedrock.....                                                                                                                                              | 198             | 223 | Marine deposits:<br>Clay and sand, brown.....                                                                                | 35              | 45    | Till:<br>Sand, fine, gray, and clay;<br>gravel, sharp.....                                                                                | 7.5             | 47.5 |
| DOVER 72. W18-2. Alt. 150 ft.<br>Lat. 43°13'25". Long. 70°57'20".<br>Ice-contact deposits:<br>Sand and gravel, gray; some<br>clay.....                    | 16              | 16  | Sand, clay, and gravel.....                                                                                                  | 20              | 65    | Refusal.....                                                                                                                              |                 | 47.5 |
| Gravel, brown (good water-<br>bearing material).....                                                                                                      | 17              | 33  | Ice-contact deposits:<br>Sand and gravel.....                                                                                | 35              | 100   | DURHAM 12. W17-1. Alt. 75 ft.<br>Lat. 43°08'00". Long. 70°57'40".<br>Marine deposits:<br>Clay, firm.....                                  | 10.0            | 10.0 |
| Sand, gray; some clay.....                                                                                                                                | 27              | 60  | Bedrock.....                                                                                                                 | 100             | 100   | Till:<br>Clay and boulders.....                                                                                                           | 10.3            | 20.3 |
| Till:<br>Hardpan.....                                                                                                                                     | 1               | 61  | DOVER 83. W18-2. Alt. 135 ft.<br>Lat. 43°13'21". Long. 70°57'07".<br>Ice-contact deposits:<br>Fill.....                      | 10              | 10    | Refusal.....                                                                                                                              |                 | 20.3 |
| Bedrock.....                                                                                                                                              |                 | 61  | Sand and gravel.....                                                                                                         | 71              | 81    | DURHAM 13. W18-9. Alt. 10 ft.<br>Lat. 43°08'03". Long. 70°53'19".<br>Marine deposits:<br>Clay.....                                        | 50              | 50   |
| DOVER 73. W18-9. Alt. 105 ft.<br>Lat. 43°09'19". Long. 70°52'40".<br>Unconsolidated deposits,<br>undifferentiated.....                                    | 20              | 20  | Till:<br>Hardpan.....                                                                                                        | 10              | 91    | Sand.....                                                                                                                                 | 10              | 60   |
| Bedrock.....                                                                                                                                              | 86              | 106 | Bedrock.....                                                                                                                 |                 | 91    | Bedrock.....                                                                                                                              | 116             | 176  |
| DOVER 74. W18-9. Alt. 95 ft.<br>Lat. 43°09'56". Long. 70°53'38".<br>Marine deposits:<br>Clay.....                                                         | 38              | 38  | DOVER 84. W18-6. Alt. 160 ft.<br>Lat. 42°10'04". Long. 70°54'07".<br>Ice-contact deposits:<br>Sand, fine; scattered gravel.. | 140.0           | 140.0 | FARMINGTON 1. V20-8. Alt. 255 ft.<br>Lat. 43°22'37". Long. 71°02'45".<br>Ice-contact deposits:<br>Sand and gravel.....                    | 55              | 55   |
| Silt.....                                                                                                                                                 | 10              | 48  | Unconsolidated deposits,<br>undifferentiated:                                                                                | 20.0            | 160.0 | FARMINGTON 2. V20-8. Alt. 257 ft.<br>Lat. 43°22'47". Long. 71°02'56".<br>Ice-contact deposits:<br>Sand, fine.....                         | 15              | 15   |
| Ice-contact deposits:<br>Clay, sandy; some sand, fine...                                                                                                  | 6               | 54  | Clay.....                                                                                                                    | 8.5             | 168.5 | Bedrock.....                                                                                                                              | 4               | 19   |
| Refusal.....                                                                                                                                              |                 | 54  | Gravel.....                                                                                                                  |                 | 168.5 | FARMINGTON 4. V19-3. Alt. 285 ft.<br>Lat. 43°21'28". Long. 71°01'50".<br>Ice-contact deposits:<br>Sand and gravel.....                    | 26              | 26   |
| DOVER 75. X18-7. Alt. 42 ft.<br>Lat. 43°08'00". Long. 70°50'14".<br>Unconsolidated deposits,<br>undifferentiated:                                         | 5               | 5   | Bedrock.....                                                                                                                 |                 |       | FARMINGTON 5. V19-2. Alt. 285 ft.<br>Lat. 43°22'13". Long. 71°02'36".<br>Ice-contact deposits:<br>Sand and gravel, coarse,<br>cobble..... | 40              | 40   |
| Gravel, coarse.....                                                                                                                                       | 5               | 5   | DURHAM 5. W18-8. Alt. 30 ft.<br>Lat. 43°08'09". Long. 70°56'10".<br>Till:<br>Sand and rocks.....                             | 10              | 10    | Sand.....                                                                                                                                 | 25              | 65   |
| Marine deposits:<br>Clay.....                                                                                                                             | 25              | 30  | Bedrock:<br>Exeter diorite.....                                                                                              | 488             | 498   | Gravel, coarse.....                                                                                                                       | 13              | 78   |
| Ice-contact deposits:<br>Sand, fine.....                                                                                                                  | 28              | 58  | DURHAM 6. W18-8. Alt. 27 ft.<br>Lat. 43°08'12". Long. 70°56'14".<br>Unconsolidated deposits,<br>undifferentiated.....        | 4               | 4     | Bedrock.....                                                                                                                              | 145             | 223  |
| Refusal.....                                                                                                                                              |                 | 58  | Bedrock:<br>Exeter diorite.....                                                                                              | 546             | 550   | LEE 4. W18-7. Alt. 112 ft.<br>Lat. 43°09'16". Long. 70°59'08".<br>Ice-contact deposits:<br>Topsoil.....                                   | 5.0             | 5.0  |
| DOVER 76. X18-7. Alt. 12 ft.<br>Lat. 43°07'43". Long. 70°50'12".<br>Marine deposits:<br>Sand, fine.....                                                   | 5               | 5   | DURHAM 7. W18-8. Alt. 37 ft.<br>Lat. 43°08'31". Long. 70°55'09".<br>Marine deposits:<br>Clay.....                            | 50              | 50    | Sand, medium, brown, and<br>gravel.....                                                                                                   | 11.0            | 16.0 |
| Clay.....                                                                                                                                                 | 25              | 30  | Sand, fine.....                                                                                                              | 5               | 55    | Sand, medium, gray, and<br>gravel.....                                                                                                    | 10.0            | 26.0 |
| Ice-contact deposits:<br>Gravel.....                                                                                                                      | 13              | 43  | Clay.....                                                                                                                    | 30              | 85    | Sand, coarse, gray, and<br>gravel.....                                                                                                    | 6.0             | 32.0 |
| DOVER 77. X18-7. Alt. 125 ft.<br>Lat. 43°09'58". Long. 70°52'24".<br>(Log starts in bottom of gravel<br>pit about 20 ft. below original<br>land surface.) | 10              | 10  | Bedrock.....                                                                                                                 | 110             | 195   | Sand, medium, gray, and<br>gravel.....                                                                                                    | 6.0             | 38.0 |
| Ice-contact deposits:<br>Sand, fine.....                                                                                                                  | 10              | 10  | DURHAM 9. W17-1. Alt. 95 ft.<br>Lat. 43°07'12". Long. 70°58'01".<br>Marine deposits:<br>Topsoil.....                         | 4               | 4     | Sand, coarse, and broken<br>rock, brown.....                                                                                              | 5.0             | 43.0 |
| Gravel, coarse, dry.....                                                                                                                                  | 26              | 36  | Clay, brown.....                                                                                                             | 9               | 13    | Sand, medium, and gravel.....                                                                                                             | 4.5             | 47.5 |
| Bedrock.....                                                                                                                                              |                 | 36  | Sand, fine, traces of clay....                                                                                               | 18              | 31    | Sand, coarse, and gravel.....                                                                                                             | 3.5             | 51.0 |
| DOVER 78. X18-7. Alt. 8 ft.<br>Lat. 43°07'35". Long. 70°50'11".<br>Marine deposits:<br>Sand.....                                                          | 10              | 10  | Ice-contact deposits:<br>Sand, medium to coarse; some<br>gravel.....                                                         | 22              | 53    | Refusal.....                                                                                                                              |                 | 51.0 |
| Clay, very soft.....                                                                                                                                      | 28              | 38  | Sand, fine, tight.....                                                                                                       | 5               | 58    | LEE 5. W18-7. Alt. 112 ft.<br>Lat. 43°09'16". Long. 70°59'09".<br>Ice-contact deposits:<br>Loam and sand.....                             | 1.5             | 1.5  |
| Sand, fine, and silt.....                                                                                                                                 | 8               | 46  | DURHAM 10. W18-7. Alt. 95 ft.<br>Lat. 43°07'36". Long. 70°58'11".<br>Ice-contact deposits:<br>Topsoil.....                   | 6.0             | 6.0   | Sand, medium to coarse.....                                                                                                               | 36.5            | 38.0 |
| Ice-contact deposits:<br>Sand and gravel.....                                                                                                             | 40              | 86  | Sand, coarse, and gravel,<br>medium; trace of clay.....                                                                      | 10.0            | 16.0  | Sand, coarse, and gravel,<br>fine; a trace of clay.....                                                                                   | 7.0             | 45.0 |
| Bedrock (assumed).....                                                                                                                                    |                 | 86  | Sand, coarse, and gravel,<br>medium.....                                                                                     | 10.0            | 26.0  | Sand, coarse; some gravel,<br>fine.....                                                                                                   | 3.0             | 48.0 |
| DOVER 79. X18-7. Alt. 10 ft.<br>Lat. 43°07'40". Long. 70°50'30".<br>Marine deposits:<br>Sand.....                                                         | 10              | 10  | Sand, coarse, and gravel,<br>fine; trace of clay.....                                                                        | 15.0            | 46.0  | LEE 10. V17-3. Alt. 190 ft.<br>Lat. 43°07'17". Long. 71°00'48".<br>Ice-contact deposits:<br>Sand and gravel.....                          | 75              | 75   |
| Clay, very soft.....                                                                                                                                      | 60              | 70  | Coarse material, no sample<br>recovery.....                                                                                  | 5.0             | 51.0  | Bedrock:<br>Elliot formation.....                                                                                                         | 79              | 154  |
| Ice-contact deposits:<br>Sand.....                                                                                                                        | 9               | 79  | Sand, fine, and clay.....                                                                                                    | 36.8            | 87.8  | LEE 11. V17-3. Alt. 195 ft.<br>Lat. 43°07'27". Long. 71°00'34".<br>Ice-contact deposits:<br>Sand and gravel.....                          | 45              | 45   |
| Bedrock (assumed).....                                                                                                                                    |                 | 79  |                                                                                                                              |                 |       | Bedrock.....                                                                                                                              | 75              | 120  |

Table 4.--Logs of selected wells and test holes in southeastern New Hampshire--Continued

## STRAFFORD COUNTY (Continued)

|                                                                                                                                                                                                                                                                                                                                                                                 | Thick-<br>ness<br>(Feet) | Depth<br>(Feet) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Thick-<br>ness<br>(Feet) | Depth<br>(Feet) |                                                                                                                                                                                                                                                                                                    | Thick-<br>ness<br>(Feet) | Depth<br>(Feet) |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------------|
| LEE 12. W17-1. Alt. 80 ft.<br>Lat. 43°05'27". Long. 70°58'46".<br>Marine deposits:<br>Clay..... 25 25<br>Bedrock..... 71 96                                                                                                                                                                                                                                                     |                          |                 | LEE 21. W18-7. Alt. 80 ft.<br>Lat. 43°08'55". Long. 70°58'08".<br>Marine deposits:<br>Clay..... 25 25<br>Till:<br>Clay and gravel, sharp..... 5 30<br>Gravel, coarse, black..... 5 35<br>Refusal..... 35                                                                                                                                                                                                                                                                           |                          |                 | MADBURY 1. W18-9. Alt. 30.71 ft.<br>Lat. 43°08'59". Long. 70°53'24".<br>Ice-contact deposits:<br>Sand and gravel..... 40 40<br>Refusal..... 40                                                                                                                                                     |                          |                 |
| LEE 13. W18-7. Alt. 105 ft.<br>Lat. 43°07'41". Long. 70°58'17".<br>Marine deposits:<br>Topsoil..... 4.0 4.0<br>Clay, light..... 7.0 11.0<br>Ice-contact deposits:<br>Sand, fine to medium, and<br>gravel..... 5.0 16.0<br>Gravel; a trace of clay..... 6.0 22.0<br>Sand, fine to medium..... 25.0 47.0<br>Sand, fine..... 3.0 50.0<br>Sand, fine to medium, gray..... 19.5 69.5 |                          |                 | LEE 22. W17-1. Alt. 80 ft.<br>Lat. 43°08'00". Long. 70°58'30".<br>Unconsolidated deposits,<br>undifferentiated:<br>Clay and boulders..... 14 14<br>Refusal..... 14                                                                                                                                                                                                                                                                                                                 |                          |                 | MADBURY 2. W18-9. Alt. 33.01 ft.<br>Lat. 43°09'01". Long. 70°53'20".<br>Ice-contact deposits:<br>Sand, fine..... 20 20<br>Sand, coarse, and gravel..... 30 50<br>Sand, fine..... 5 55<br>Till:<br>Hardpan..... 5 60<br>Refusal..... 60                                                             |                          |                 |
| LEE 14. W18-7. Alt. 83 ft.<br>Lat. 43°07'38". Long. 70°58'31".<br>Marine deposits:<br>Clay, brown..... 12.0 12.0<br>Clay, gray..... 21.0 33.0<br>Sand, fine, gray..... 10.5 43.5<br>Till:<br>Sand, fine, gray, and gravel,<br>fine, sharp..... 15.3 58.8<br>Refusal..... 58.8                                                                                                   |                          |                 | LEE 23. W18-7. Alt. 113.4 ft.<br>Lat. 43°09'12". Long. 70°59'07".<br>Ice-contact deposits:<br>Topsoil..... 3.0 3.0<br>Sand, fine to medium; some<br>gravel..... 8.0 11.0<br>Sand, fine to medium..... 10.0 21.0<br>Gravel, medium to coarse,<br>dark brown..... 2.0 23.0<br>Sand, fine to medium..... 20.0 43.0<br>Sand, medium to coarse..... 5.0 48.0<br>Sand, fine; scattered gravel..... 7.0 55.0<br>Sand, fine..... 1.5 56.5<br>Refusal..... 56.5                             |                          |                 | MADBURY 3. W18-9. Alt. 31.33 ft.<br>Lat. 43°09'03". Long. 70°53'20".<br>Ice-contact deposits:<br>Clay..... 5 5<br>Clay, sandy..... 5 10<br>Sand, coarse..... 20 30<br>Sand and gravel..... 16 46<br>Sand and gravel, gray..... 8 54<br>Refusal..... 54                                             |                          |                 |
| LEE 15. W18-7. Alt. 80 ft.<br>Lat. 43°07'48". Long. 70°58'13".<br>Marine deposits:<br>Clay, firm..... 7.0 7.0<br>Sand, fine, silty..... 12.0 19.0<br>Sand, fine, gray..... 15.5 34.5<br>Refusal..... 34.5                                                                                                                                                                       |                          |                 | LEE 24. W18-7. Alt. 118.02 ft.<br>Lat. 43°09'13". Long. 70°59'04".<br>Ice-contact deposits:<br>Loam and boulders..... 5 5<br>Sand, gravel, and boulders..... 10 15<br>Sand, coarse, and gravel..... 33 48<br>Till:<br>Sand, medium to coarse, and<br>gravel, sharp; a little clay 3 51<br>Refusal..... 51                                                                                                                                                                          |                          |                 | MADBURY 4. W18-9. Alt. 32.66 ft.<br>Lat. 43°09'08". Long. 70°53'18".<br>Ice-contact deposits:<br>Clay..... 8 8<br>Gravel, fine, sandy..... 35 43<br>Sand, coarse, and gravel..... 17 60<br>Refusal..... 60                                                                                         |                          |                 |
| LEE 16. W18-7. Alt. 100 ft.<br>Lat. 43°07'42". Long. 70°58'26".<br>Ice-contact deposits:<br>Sand, coarse, and gravel..... 23 23<br>Clay, gray..... 2 25<br>Sand, fine, tight..... 12 37<br>Refusal..... 37                                                                                                                                                                      |                          |                 | LEE 25. W18-7. Alt. 110.6 ft.<br>Lat. 43°09'17". Long. 70°59'07".<br>Ice-contact deposits:<br>Loam and sand..... 1 1<br>Sand, medium to coarse..... 19 20<br>Sand, medium, and gravel,<br>sharp..... 11 31<br>Sand, medium to coarse; a<br>little clay..... 13 44<br>Sand and gravel, coarse..... 4 48<br>Refusal..... 48                                                                                                                                                          |                          |                 | MADBURY 5. W18-9. Alt. 47.35 ft.<br>Lat. 43°09'14". Long. 70°53'19".<br>Marine deposits:<br>Topsoil..... 2 2<br>Clay, gray; some sand..... 51 53<br>Clay, sandy, fine, gray..... 5 58<br>Ice-contact deposits:<br>Sand, coarse, brown, and<br>gravel..... 4 62<br>Refusal..... 62                  |                          |                 |
| LEE 17. W18-7. Alt. 85 ft.<br>Lat. 43°08'00". Long. 70°58'27".<br>Marine deposits:<br>Topsoil; some clay..... 8 8<br>Sand, fine..... 33 41<br>Ice-contact deposits:<br>Sand, coarse, and gravel,<br>sharp..... 4 45<br>Refusal..... 45                                                                                                                                          |                          |                 | LEE 26. W18-7. Alt. 111.4 ft.<br>Lat. 43°09'14". Long. 70°59'08".<br>Ice-contact deposits:<br>Sand and clay..... 2.0 2.0<br>Sand, medium; a little clay..... 25.0 27.0<br>Clay, firm..... 1.5 28.5<br>Sand, medium; a little clay..... 13.5 42.0<br>Sand, medium to coarse, and<br>gravel, medium..... 6.0 48.0                                                                                                                                                                    |                          |                 | MADBURY 6. W18-9. Alt. 39.10 ft.<br>Lat. 43°09'20". Long. 70°53'20".<br>Marine deposits:<br>Topsoil..... 2 2<br>Clay, gray..... 26 28<br>Sand and clay..... 14 42<br>Ice-contact deposits:<br>Sand, gray..... 16 58<br>Sand, coarse, brown, and<br>gravel..... 32 90<br>Till:<br>Hardpan..... 1 91 |                          |                 |
| LEE 18. W18-7. Alt. 65 ft.<br>Lat. 43°08'21". Long. 70°58'13".<br>Marine deposits:<br>Clay, firm, brown..... 28.0 28.0<br>Clay, gray..... 20.0 48.0<br>Ice-contact deposits:<br>Sand, fine, brown..... 12.0 60.0<br>Sand, fine, gray..... 14.9 74.9<br>Refusal..... 74.9                                                                                                        |                          |                 | LEE 27. W18-9. Alt. 190 ft.<br>Lat. 43°09'33". Long. 71°00'20".<br>Geologist's log. (Log starts at<br>bottom of gravel pit about<br>10 ft. below original surface.)<br>Ice-contact deposits:<br>Sand, very fine; some sand,<br>medium; a little silt, brown 25 25<br>Sand, very fine; a little<br>silt, brown..... 13 38<br>Refusal..... 38                                                                                                                                        |                          |                 | MADBURY 7. W18-5. Alt. 137.67 ft.<br>Lat. 43°11'20". Long. 70°55'47".<br>Ice-contact deposits:<br>Gravel, coarse..... 43.8 43.8                                                                                                                                                                    |                          |                 |
| LEE 19. W18-7. Alt. 72 ft.<br>Lat. 43°08'38". Long. 70°58'17".<br>Marine deposits:<br>Topsoil..... 4 4<br>Clay, gray..... 17 21<br>Sand, fine, and clay..... 7 28<br>Refusal..... 28                                                                                                                                                                                            |                          |                 | LEE 28. W17-3. Alt. 100 ft.<br>Lat. 43°05'35". Long. 71°01'00".<br>Geologist's log. (Log starts at<br>bottom of pit about 5 ft. below<br>original land surface.)<br>Outwash and shore deposits:<br>Sand, medium to coarse,<br>brown to buff..... 14 14<br>Sand, fine to medium,<br>brown to buff..... 6 20<br>Marine deposits:<br>Silt and clay, light gray;<br>some sand in streaks..... 10 30<br>Silt and clay, blue-gray,<br>plastic; occasional sand<br>streak in it..... 9 39 |                          |                 | MADBURY 8. W18-9. Alt. 105 ft.<br>Lat. 43°09'35". Long. 70°53'45".<br>Ice-contact deposits:<br>Loam, sandy..... 6 6<br>Bedrock..... 123 129                                                                                                                                                        |                          |                 |
| LEE 20. W18-7. Alt. 97 ft.<br>Lat. 43°08'58". Long. 70°58'23".<br>Marine deposits:<br>Topsoil..... 4 4<br>Clay, gray..... 12 16<br>Clay and sand, fine..... 12 28<br>Ice-contact deposits:<br>Sand, fine, brown, and gravel,<br>sharp, black..... 4 32<br>Refusal..... 32                                                                                                       |                          |                 | MADBURY 9. W18-5. Alt. 105 ft.<br>Lat. 43°10'49". Long. 70°55'54".<br>Marine deposits:<br>Clay, sandy, fine, brown;<br>some gravel..... 10 10<br>Clay, sandy, fine, gray..... 74 84<br>Ice-contact deposits:<br>Sand, fine, and gravel..... 4 88<br>Refusal..... 88                                                                                                                                                                                                                |                          |                 | MADBURY 11. W18-9. Alt. 31.1 ft.<br>Lat. 43°08'59". Long. 70°53'24".<br>Ice-contact deposits:<br>Sand, gravel, and cobbles..... 38 38<br>Bedrock..... 38                                                                                                                                           |                          |                 |
|                                                                                                                                                                                                                                                                                                                                                                                 |                          |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                          |                 | MADBURY 12. W18-9. Alt. 32.7 ft.<br>Lat. 43°09'01". Long. 70°53'20".<br>Ice-contact deposits:<br>Sand, fine..... 20 20<br>Sand, coarse, and gravel..... 25 45                                                                                                                                      |                          |                 |

Table 4.--Logs of selected wells and test holes in southeastern New Hampshire--Continued

## STRAFFORD COUNTY (Continued)

|                                                                                                                                                                                                                                                                                               | Thick-<br>ness<br>(Feet) | Depth<br>(Feet) |                                                                                                                                                                                                                                                                           | Thick-<br>ness<br>(Feet) | Depth<br>(Feet) |                                                                                                                                                                                                                                                                                            | Thick-<br>ness<br>(Feet) | Depth<br>(Feet) |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------------|
| MADBURY 13. W18-9. Alt. 32.7 ft.<br>Lat. 43°09'08". Long. 70°53'18".<br>Ice-contact deposits:<br>Clay..... 8 8<br>Gravel, fine, sandy..... 35 43<br>Sand, coarse, and gravel..... 17 60                                                                                                       |                          |                 | MADBURY 23. W18-6. Alt. 98 ft.<br>Lat. 43°10'18". Long. 70°54'40".<br>Marine deposits:<br>Clay..... 34 34<br>Ice-contact deposits:<br>Sand, fine..... 21 55<br>Refusal..... 55 55                                                                                         |                          |                 | MADBURY 33. W18-9. Alt. 80 ft.<br>Lat. 43°09'43". Long. 70°54'12".<br>Marine deposits:<br>Topsoil..... 1 1<br>Clay, yellow, and sand, fine.. 26 27<br>Ice-contact deposits:<br>Gravel and sand..... 17 44<br>Gravel..... 10 54<br>Gravel and sand, coarse..... 16 70<br>Refusal..... 70 70 |                          |                 |
| MADBURY 14. W18-9. Alt. 39.0 ft.<br>Lat. 43°09'20". Long. 70°53'20".<br>Marine deposits:<br>Clay, gray..... 28 28<br>Sand and clay..... 14 42<br>Ice-contact deposits:<br>Sand, gray..... 16 58<br>Sand, coarse, brown, and gravel 32 90<br>Till:<br>Hardpan..... 90                          |                          |                 | MADBURY 24. W18-6. Alt. 110 ft.<br>Lat. 43°10'13". Long. 70°54'53".<br>Ice-contact deposits:<br>Sand and gravel..... 25 25<br>Sand and gravel, rusty-colored 5 30<br>Sand and gravel..... 15 45<br>Refusal..... 45 45                                                     |                          |                 | MADBURY 34. W18-9. Alt. 60 ft.<br>Lat. 43°09'40". Long. 70°54'11".<br>Marine deposits:<br>Topsoil..... 3 3<br>Clay..... 21 24<br>Clay, sandy..... 20 44<br>Ice-contact deposits:<br>Sand, medium, gray..... 12 56<br>Sand and gravel, gray..... 2 58<br>Refusal..... 58 58                 |                          |                 |
| MADBURY 15. W18-5. Alt. 128 ft.<br>Lat. 43°11'54". Long. 70°57'04".<br>Marine deposits:<br>Topsoil..... 3 3<br>Clay and sand, fine..... 73 76<br>Refusal..... 76 76                                                                                                                           |                          |                 | MADBURY 25. W18-6. Alt. 115 ft.<br>Lat. 43°10'13". Long. 70°54'48".<br>Ice-contact deposits:<br>Sand, fine..... 52 52<br>Refusal..... 52 52                                                                                                                               |                          |                 | MADBURY 35. W18-9. Alt. 40 ft.<br>Lat. 43°09'37". Long. 70°54'11".<br>Marine deposits:<br>Clay, gray..... 35 35<br>Clay, sandy..... 9 44<br>Ice-contact deposits:<br>Sand, fine, brown..... 12 56<br>Sand, coarse, gray, and gravel..... 11 67<br>Refusal..... 67 67                       |                          |                 |
| MADBURY 16. W18-5. Alt. 130 ft.<br>Lat. 43°11'50". Long. 70°56'59".<br>Marine deposits:<br>Topsoil..... 1 1<br>Clay, sand, fine; some gravel.. 19 20<br>Clay, sand, fine..... 42 62<br>Refusal..... 62 62                                                                                     |                          |                 | MADBURY 26. W18-6. Alt. 110 ft.<br>Lat. 43°10'14". Long. 70°54'34".<br>Marine deposits:<br>Loam, sandy, and clay, sandy.. 4 4<br>Clay..... 22 26<br>Ice-contact deposits:<br>Sand, coarse, and clay..... 11.5 37.5<br>Refusal..... 37.5 37.5                              |                          |                 | MADBURY 36. W18-9. Alt. 90 ft.<br>Lat. 43°09'44". Long. 70°54'17".<br>Outwash and shore deposits:<br>Sand, fine..... 24 24<br>Marine deposits:<br>Clay..... 18 42<br>Refusal..... 42 42                                                                                                    |                          |                 |
| MADBURY 17. W18-5. Alt. 138 ft.<br>Lat. 43°11'58". Long. 70°56'43".<br>Marine deposits:<br>Topsoil..... 2 2<br>Sand, fine..... 20 22<br>Clay..... 54 76<br>Ice-contact deposits:<br>Sand and gravel..... 6 82<br>Sand, fine..... 33 115<br>Refusal..... 115 115                               |                          |                 | MADBURY 27. W18-6. Alt. 160 ft.<br>Lat. 43°10'08". Long. 70°54'24".<br>Ice-contact deposits:<br>Topsoil..... 6 6<br>Sand and gravel..... 17 23<br>Gravel, coarse..... 22 45<br>Refusal..... 45 45                                                                         |                          |                 | MADBURY 37. W18-9. Alt. 82 ft.<br>Lat. 43°09'43". Long. 70°54'20".<br>Marine deposits:<br>Topsoil..... 2 2<br>Clay..... 12 14<br>Clay, sandy..... 16 30<br>Till:<br>Hardpan..... 7 37<br>Refusal..... 37 37                                                                                |                          |                 |
| MADBURY 18. W18-5. Alt. 105 ft.<br>Lat. 43°10'49". Long. 70°55'50".<br>Marine deposits:<br>Sand, fine, gray..... 21.0 21.0<br>Clay, gray..... 43.0 64.0<br>Clay, sandy, fine, gray..... 26.5 90.5                                                                                             |                          |                 | MADBURY 28. W18-6. Alt. 135 ft.<br>Lat. 43°10'04". Long. 70°54'28".<br>Ice-contact deposits:<br>Topsoil..... 6 6<br>Sand, fine, gray..... 32 38<br>Sand, medium to fine, brown.. 20 58<br>Sand and gravel..... 13 71<br>Sand, fine, gray..... 10 81<br>Refusal..... 81 81 |                          |                 | MADBURY 38. W18-9. Alt. 40 ft.<br>Lat. 43°09'43". Long. 70°54'25".<br>Marine deposits:<br>Topsoil..... 1 1<br>Clay, sandy..... 26 27<br>Refusal..... 27 27                                                                                                                                 |                          |                 |
| MADBURY 19. W18-5. Alt. 105 ft.<br>Lat. 43°10'51". Long. 70°56'05".<br>Marine deposits:<br>Topsoil..... 1.5 1.5<br>Clay, sandy, fine, brown..... 13.5 15.0<br>Ice-contact deposits:<br>Sand, coarse, brown, and gravel 18.0 33.0<br>Sand, fine, gray..... 11.0 44.0<br>Refusal..... 44.0 44.0 |                          |                 | MADBURY 29. W18-9. Alt. 110 ft.<br>Lat. 43°09'54". Long. 70°54'06".<br>Marine deposits:<br>Topsoil..... 2 2<br>Clay..... 22 24<br>Ice-contact deposits:<br>Clay, sandy..... 49 73<br>Sand, fine..... 4.8 77.8<br>Refusal..... 77.8 77.8                                   |                          |                 | MADBURY 39. W18-9. Alt. 40 ft.<br>Lat. 43°09'38". Long. 70°54'19".<br>Marine deposits:<br>Clay, sandy..... 44 44<br>Clay, sand, and gravel..... 6 50<br>Ice-contact deposits:<br>Sand, coarse, and gravel..... 18 68<br>Sand, fine..... 14 82<br>Refusal..... 82 82                        |                          |                 |
| MADBURY 20. W18-5. Alt. 118 ft.<br>Lat. 43°10'52". Long. 70°56'11".<br>Marine deposits:<br>Sand, fine, brown, and clay.... 62 62<br>Ice-contact deposits:<br>Sand, fine, gray, and gravel... 8 70<br>Till:<br>Hardpan, gray..... 6 76<br>Refusal..... 76 76                                   |                          |                 | MADBURY 30. W18-9. Alt. 98 ft.<br>Lat. 43°09'52". Long. 70°54'01".<br>Outwash and shore deposits:<br>Sand..... 20 20<br>Marine deposits:<br>Clay..... 50 70<br>Ice-contact deposits:<br>Silt, sandy..... 28 98<br>Refusal..... 98 98                                      |                          |                 | MADBURY 40. W18-9. Alt. 40 ft.<br>Lat. 43°09'38". Long. 70°54'17".<br>Marine deposits:<br>Topsoil..... 1 1<br>Clay..... 36 37<br>Clay, sandy..... 5 42<br>Refusal..... 42 42                                                                                                               |                          |                 |
| MADBURY 21. W18-6. Alt. 92 ft.<br>Lat. 43°10'24". Long. 70°54'47".<br>Marine deposits:<br>Clay..... 43 43<br>Ice-contact deposits:<br>Sand, coarse..... 12 55<br>Refusal..... 55 55                                                                                                           |                          |                 | MADBURY 31. W18-9. Alt. 90 ft.<br>Lat. 43°09'50". Long. 70°54'04".<br>Outwash and shore deposits:<br>Topsoil..... 1 1<br>Clay and sand..... 31 32<br>Ice-contact deposits:<br>Sand, fine..... 61 93<br>Refusal..... 93 93                                                 |                          |                 | MADBURY 41. W18-9. Alt. 68 ft.<br>Lat. 43°09'38". Long. 70°54'23".<br>Marine deposits:<br>Topsoil..... 2 2<br>Clay..... 23 25<br>Ice-contact deposits:<br>Sand, gravel, and clay..... 14 39<br>Refusal..... 39 39                                                                          |                          |                 |
| MADBURY 22. W18-6. Alt. 100 ft.<br>Lat. 43°10'18". Long. 70°54'48".<br>Marine deposits:<br>Sand and clay..... 3 3<br>Clay..... 52 55<br>Ice-contact deposits:<br>Sand, fine..... 19 74<br>Refusal..... 74 74                                                                                  |                          |                 | MADBURY 32. W18-9. Alt. 78 ft.<br>Lat. 43°09'46". Long. 70°54'07".<br>Outwash and shore deposits:<br>Topsoil..... 1 1<br>Sand, fine..... 23 24<br>Marine deposits:<br>Clay, blue..... 32 56<br>Ice-contact deposits:<br>Sand, fine..... 35 91<br>Refusal..... 91 91       |                          |                 | MADBURY 42. W18-9. Alt. 55 ft.<br>Lat. 43°09'40". Long. 70°54'32".<br>Marine deposits:<br>Topsoil..... 1 1<br>Clay..... 11 12<br>Clay, sandy..... 23 35<br>Refusal..... 35 35                                                                                                              |                          |                 |

Table 4.--Logs of selected wells and test holes in southeastern New Hampshire--Continued

## STRAFFORD COUNTY (Continued)

|                                                                                                                                                                                                                                                                 | Thick-<br>ness<br>(Feet) | Depth<br>(Feet) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Thick-<br>ness<br>(Feet) | Depth<br>(Feet) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Thick-<br>ness<br>(Feet) | Depth<br>(Feet) |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------------|
| <b>MADBURY 43.</b> W18-9. Alt. 50 ft.<br>Lat. 43°09'36". Long. 70°54'26".<br>Marine deposits:<br>Topsoil..... 2 2<br>Clay..... 37 39<br>Sand, fine, and clay..... 37 76<br>Ice-contact deposits:<br>Gravel, sandy..... 6 82<br>Refusal..... 82                  |                          |                 | <b>MADBURY 53.</b> W18-5. Alt. 160 ft.<br>Lat. 43°11'08". Long. 70°55'35".<br>Outwash and shore deposits:<br>Sand..... 30 30<br>Marine deposits:<br>Clay, sandy..... 27.7 57.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                          |                 | <b>ROCHESTER 22.</b> W19-4. Alt. 225 ft.<br>Lat. 43°19'03". Long. 70°59'25".<br>Ice-contact deposits:<br>Sand, fine to coarse, brown;<br>some gravel, boulders, and<br>clay..... 5.0 5.0<br>Sand, fine to coarse, gray;<br>some gravel, fine to medium;<br>some silt, micaceous..... 11.0 16.0<br>Sand, medium to coarse, gray;<br>some gravel, fine to coarse;<br>silt and boulders..... 10.5 26.5<br>Sand, medium to coarse, gray;<br>some clay; some silt,<br>micaceous; some gravel,<br>fine to medium..... 6.0 32.5<br>Sand, medium to coarse, gray;<br>some gravel, fine to medium;<br>some silt, micaceous; a<br>little clay; a few boulders. 10.5 43.0<br>Sand, medium to coarse, gray;<br>some gravel, fine to medium. 9.5 52.5<br>Sand, fine to coarse, gray;<br>some silt, micaceous..... 4.5 57.0<br>Sand, fine to coarse, gray;<br>some gravel, fine..... 9.0 66.0<br>Gravel, fine to medium; some<br>sand, coarse, gray..... 8.5 74.5<br>Gravel, fine to medium; some<br>sand, coarse, gray; some<br>silt, micaceous..... 7.5 82.0<br>Sand, medium to coarse, gray;<br>some silt, micaceous; some<br>gravel and clay..... 4.0 86.0<br>Sand, medium to coarse; some<br>silt..... 3.5 89.5<br>Sand, fine to medium; silt<br>and clay..... 4.5 94.0<br>Bedrock..... 94.0 |                          |                 |
| <b>MADBURY 44.</b> W18-9. Alt. 35 ft.<br>Lat. 43°09'30". Long. 70°54'20".<br>Marine deposits:<br>Topsoil..... 2 2<br>Clay, sandy..... 60 62<br>Ice-contact deposits:<br>Sand, coarse, and gravel..... 11 73<br>Clay and sand, fine..... 6 79<br>Refusal..... 79 |                          |                 | <b>MADBURY 54.</b> W18-5. Alt. 200 ft.<br>Lat. 49°11'04". Long. 70°55'56".<br>Ice-contact deposits:<br>Sand and gravel..... 50 50<br>Sand, fine..... 140 190<br>Bedrock..... 140 330                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                          |                 | <b>ROCHESTER 1.</b> W19-1. Alt. 250 ft.<br>Lat. 43°20'59". Long. 70°58'33".<br>Outwash and shore deposits:<br>Sand..... 20 20<br>Sand, very fine..... 6 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                          |                 |
| <b>MADBURY 45.</b> W18-9. Alt. 115 ft.<br>Lat. 43°09'48". Long. 70°54'45".<br>Outwash and shore deposits:<br>Sand, fine..... 47 47<br>Refusal..... 47                                                                                                           |                          |                 | <b>ROCHESTER 6.</b> W19-4. Alt. 225.54 ft.<br>Lat. 43°19'02". Long. 70°59'22".<br>Ice-contact deposits:<br>Sand, silt, clay, brown;<br>some gravel..... 5.0 5.0<br>Sand, fine to coarse, brown;<br>some silt, micaceous; some<br>gravel, fine to medium..... 17.3 22.3<br>Sand, medium to coarse, brown;<br>some silt, micaceous, some<br>gravel, fine to medium;<br>trace of clay..... 10.7 33.0<br>Sand and gravel, fine to<br>coarse, brown..... 5.0 38.0<br>Sand, coarse, brown; some<br>gravel, fine; trace of clay. 10.0 48.0<br>Sand, coarse, brown; some<br>gravel, fine to coarse..... 11.0 59.0<br>Sand and gravel..... 6.0 65.0                                                                                                                                                                                                                                               |                          |                 | <b>ROCHESTER 8.</b> W19-4. Alt. 235 ft.<br>Lat. 43°18'18". Long. 70°58'35".<br>Unconsolidated deposits,<br>undifferentiated..... 80 80<br>Bedrock..... 127 207                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                          |                 |
| <b>MADBURY 46.</b> W18-9. Alt. 120 ft.<br>Lat. 43°09'47". Long. 70°54'45".<br>Till:<br>Topsoil..... 1 1<br>Clay, sandy; some gravel and<br>stone..... 14 15<br>Refusal..... 15                                                                                  |                          |                 | <b>ROCHESTER 9.</b> W19-4. Alt. 223.09 ft.<br>Lat. 43°19'02". Long. 70°59'20".<br>Ice-contact deposits:<br>Sand, coarse, reddish brown;<br>some clay; some gravel, fine<br>to medium..... 5 5<br>Gravel, medium; some sand,<br>coarse..... 14 19<br>Sand, coarse, brown; some<br>gravel, fine to medium; some<br>boulders..... 7 26<br>Gravel, fine to medium; some<br>sand, coarse, reddish brown. 14 40<br>Boulders and gravel; some<br>sand, coarse, brown..... 8 48<br>Sand, coarse, brown; some<br>gravel, fine to medium..... 12 60<br>Sand, fine to medium, gray;<br>some gravel, medium to<br>coarse..... 16 76<br>Sand, coarse, brown; some<br>gravel, fine to medium..... 10 86<br>Sand, fine to medium, mostly<br>quartz, gray; some gravel,<br>fine to medium; some silt... 4 90<br>Gravel, fine to medium; some<br>sand, medium to coarse, gray 9 99<br>Bedrock..... 99 260 |                          |                 | <b>ROCHESTER 23.</b> W19-4. Alt. 222.0 ft.<br>Lat. 43°19'05". Long. 70°59'23".<br>Ice-contact deposits:<br>Sand, medium to coarse,<br>brown; some silt; some<br>gravel, medium..... 4.0 4.0<br>Sand, coarse, brown; some<br>gravel, fine to medium..... 4.0 8.0<br>Sand, medium to coarse, gray;<br>a little gravel; some silt<br>and clay..... 5.0 13.0<br>Sand, fine to medium, gray;<br>some silt..... 13.0 26.0<br>Sand, coarse, gray; some<br>gravel, fine to medium..... 28.5 54.5<br>Sand, coarse, gray; some<br>gravel; some small boulders. 6.0 60.5<br>Gravel, fine to coarse; some<br>sand, coarse, gray; some<br>silt, micaceous..... 30.0 90.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                          |                 |
| <b>MADBURY 47.</b> W18-9. Alt. 33 ft.<br>Lat. 43°09'08". Long. 70°53'16".<br>Ice-contact deposits:<br>Clay, sandy..... 18 18<br>Sand, fine and coarse..... 12 30<br>Sand, fine..... 30 60<br>Sand, coarse, and gravel..... 2 62<br>Refusal..... 62              |                          |                 | <b>ROCHESTER 18.</b> W19-1. Alt. 245 ft.<br>Lat. 43°20'44". Long. 70°58'29".<br>Outwash and shore deposits:<br>Sand..... 25 25<br>Marine deposits..... 65 90<br>Bedrock..... 170 260                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                          |                 | <b>ROCHESTER 24.</b> W19-4. Alt. 226.0 ft.<br>Lat. 43°19'01". Long. 70°59'16".<br>Ice-contact deposits:<br>Sand, coarse, reddish-brown;<br>some gravel, fine to coarse;<br>some clay..... 8 8<br>Sand, coarse, light brown;<br>some gravel, fine to coarse,<br>some silt, micaceous..... 17 25<br>Sand, medium to coarse, gray;<br>some gravel, fine; some<br>silt, micaceous..... 5 30<br>Sand, fine to medium, gray... 13 43<br>Silt, micaceous; some clay,<br>blue..... 1 44<br>Sand, fine to medium, gray;<br>some silt, micaceous..... 9 53<br>Sand, fine to coarse, gray;<br>some gravel, fine to medium;<br>some silt, micaceous..... 19 72<br>Gravel, fine to medium; a<br>little sand, gray..... 17 89<br>Sand, coarse, gray; some<br>gravel, fine to coarse..... 5 94<br>Bedrock..... 94                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                          |                 |
| <b>MADBURY 48.</b> W18-9. Alt. 31 ft.<br>Lat. 43°09'04". Long. 70°53'18".<br>Ice-contact deposits:<br>Clay..... 5 5<br>Sand, coarse..... 17 22<br>Sand and gravel..... 9 31                                                                                     |                          |                 | <b>MADBURY 51.</b> W18-9. Alt. 35 ft.<br>Lat. 43°08'59". Long. 70°53'38".<br>Marine deposits:<br>Topsoil..... 1 1<br>Clay, sandy, fine, brown..... 22 23<br>Ice-contact deposits:<br>Sand and gravel..... 7 30<br>Clay, sandy, and gravel<br>(hardpan)..... 4 34<br>Refusal..... 34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                          |                 | <b>MADBURY 52.</b> W18-9. Alt. 25 ft.<br>Lat. 43°08'58". Long. 70°53'39".<br>Marine deposits:<br>Clay, sandy, brown..... 3 3<br>Clay, soft, gray; some sand... 22 25<br>Ice-contact deposits:<br>Sand, fine, and gravel; streaks<br>of clay..... 17 42<br>Refusal..... 42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                          |                 |

Table 4.--Logs of selected wells and test holes in southeastern New Hampshire--Continued

## STRAFFORD COUNTY (Continued)

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Thick-<br>ness<br>(Feet) | Depth<br>(Feet) |                                                                                                                                                                                                                                                                                                                                                                                                                              | Thick-<br>ness<br>(Feet) | Depth<br>(Feet) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Thick-<br>ness<br>(Feet) | Depth<br>(Feet) |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------------|
| <b>ROCHESTER 25.</b> W19-4. Alt. 221.56 ft.<br>Lat. 43°18'46". Long. 70°59'26".<br>Recent alluvium:<br>Sand, fine to coarse, brown;<br>some gravel, fine to medium.. 21.8 21.8<br>Outwash and shore deposits:<br>Sand, medium to coarse..... 9.7 31.5<br>Sand, medium to coarse, and<br>balls of clay, blue..... 8.5 40.0<br>Marine deposits:<br>Clay, blue..... 20.0 60.0                                                                                                                                    |                          |                 | <b>ROLLINSFORD 10.</b> --Continued<br>Marine deposits:<br>Silt and clay, gray to light<br>gray..... 27.0 49.0                                                                                                                                                                                                                                                                                                                |                          |                 | <b>SOMERSWORTH 13.</b> --Continued<br>Ice-contact deposits:<br>Sand, coarse, hard, black,<br>and clay; a little silt<br>(flow 10 gpm)..... 7.0 40.0<br>Sand, coarse, hard, black..... 3.0 43.0<br>Bedrock..... 43.0                                                                                                                                                                                                                                                                                                                                     |                          |                 |
| <b>ROCHESTER 26.</b> W19-7. Alt. 194.2 ft.<br>Lat. 43°16'42". Long. 70°58'07".<br>Outwash and shore deposits:<br>Sand, coarse, and gravel, fine.<br>Marine deposits:<br>Sand, fine, silt, and clay,<br>stratified..... 29 38<br>Clay, very soft..... 46 84<br>Sand..... 5 89<br>Clay, soft..... 14 103<br>Ice-contact deposits:<br>Sand..... 23 126                                                                                                                                                           |                          |                 | <b>ROLLINSFORD 11.</b> W18-3. Alt. 175 ft.<br>Lat. 43°13'25". Long. 70°52'54".<br>Marine deposits:<br>Sand, fine..... 40 40<br>Clay, sandy..... 32 72<br>Refusal..... 72                                                                                                                                                                                                                                                     |                          |                 | <b>SOMERSWORTH 14.</b> X18-1. Alt. 150 ft.<br>Lat. 43°14'31". Long. 70°51'52".<br>Marine deposits:<br>Topsoil..... 1 1<br>Clay, heavy, gray..... 9 10<br>Clay; some sand..... 5 15<br>Gravel, black, and sand, fine. 1 16<br>Bedrock..... 16                                                                                                                                                                                                                                                                                                            |                          |                 |
| <b>ROCHESTER 27.</b> W19-7. Alt. 177.5 ft.<br>Lat. 43°16'46". Long. 70°58'34".<br>Recent alluvium:<br>Topsoil..... 1.5 1.5<br>Sand, fine..... 3.5 5.0<br>Sand, medium to coarse..... 8.5 13.5<br>Marine deposits:<br>Clay, soft..... 20.0 33.5<br>Ice-contact deposits:<br>Sand, fine to medium..... 50.5 84.0<br>Refusal..... 84.0                                                                                                                                                                           |                          |                 | <b>ROLLINSFORD 12.</b> W18-3. Alt. 175 ft.<br>Lat. 43°13'23". Long. 70°52'59".<br>Marine deposits:<br>Sand..... 20 20<br>Clay..... 8 28<br>Refusal..... 28                                                                                                                                                                                                                                                                   |                          |                 | <b>SOMERSWORTH 15.</b> X18-1. Alt. 150 ft.<br>Lat. 43°14'36". Long. 70°51'59".<br>Marine deposits:<br>Topsoil..... 1.0 1.0<br>Clay, soft, yellow; some sand<br>and silt..... 11.0 12.0<br>Clay, hard, gray..... 8.0 20.0<br>Clay, hard, gray; soft<br>and hard layers..... 15.0 35.0<br>Clay, hard, gray; soft and<br>hard layers and some silt<br>and sand..... 14.0 49.0<br>Gravel..... 0.3 49.3<br>Bedrock..... 49.3                                                                                                                                 |                          |                 |
| <b>ROCHESTER 28.</b> W19-7. Alt. 173.7 ft.<br>Lat. 43°16'47". Long. 70°58'40".<br>Swamp deposits:<br>Muck..... 5 5<br>Marine deposits:<br>Clay, soft..... 11 16<br>Ice-contact deposits:<br>Sand, fine to medium..... 23 39<br>Sand, coarse, and gravel, fine. 46 85<br>Sand, fine..... 9 94                                                                                                                                                                                                                  |                          |                 | <b>ROLLINSFORD 13.</b> W18-3. Alt. 215 ft.<br>Lat. 43°14'05". Long. 70°53'57".<br>Unconsolidated deposits,<br>undifferentiated..... 28 28<br>Bedrock..... 97 125                                                                                                                                                                                                                                                             |                          |                 | <b>SOMERSWORTH 16.</b> X18-1. Alt. 155 ft.<br>Lat. 43°14'47". Long. 70°51'57".<br>Marine deposits:<br>Topsoil..... 1 1<br>Clay..... 6 7<br>Bedrock..... 7                                                                                                                                                                                                                                                                                                                                                                                               |                          |                 |
| <b>ROLLINSFORD 8.</b> X18-1. Alt. 118 ft.<br>Lat. 43°13'57". Long. 70°50'32".<br>Geologist's log.<br>Marine deposits:<br>Silt and clay, gray to olive-<br>drab..... 14 14<br>Silt and clay, light gray. .... 3 17<br>Silt and clay, plastic, blue-<br>gray..... 4 21<br>Silt and clay, plastic, blue-<br>gray; contains scattered<br>gravel..... 2 23<br>Ice-contact deposits:<br>Clay, silt, sand, and gravel,<br>angular, gray..... 1 24<br>Refusal..... 24                                                 |                          |                 | <b>SOMERSWORTH 5.</b> W19-9. Alt. 183 ft.<br>Lat. 43°16'54". Long. 70°54'08".<br>Ice-contact deposits:<br>Sand and loam..... 5 5<br>Sand, medium to coarse, red... 5 10<br>Sand, coarse..... 7 17<br>Sand, fine, brown and yellow;<br>some silt..... 8 25<br>Sand, coarse, red..... 5 30<br>Gravel and sand, mixed..... 14 44<br>Sand, coarse, red..... 6 50                                                                 |                          |                 | <b>SOMERSWORTH 17.</b> X18-1. Alt. 190 ft.<br>Lat. 43°14'45". Long. 70°52'46".<br>Ice-contact deposits:<br>Topsoil..... 1 1<br>Sand, coarse, white; a little<br>silt..... 4 5<br>Sand, medium to coarse, a<br>little silt..... 5 10<br>Sand, fine to medium; streaks<br>of iron stain and some silt... 5 15<br>Sand, fine; streaks of clay... 5 20<br>Sand, fine; some silt..... 5 25<br>Sand, very fine, and silt..... 5 30<br>Sand, very fine, gray, silt,<br>and clay, soft..... 33 63<br>Bedrock..... 63                                            |                          |                 |
| <b>ROLLINSFORD 9.</b> X18-1. Alt. 128 ft.<br>Lat. 43°13'48". Long. 70°50'20".<br>Geologist's log.<br>Outwash and shore deposits:<br>Loam, sandy, brown..... 1.5 1.5<br>Sand, medium to coarse,<br>micaceous, brown..... 8.5 10.0<br>Sand, coarse to very coarse,<br>micaceous, brown..... 4.0 14.0<br>Sand, medium to coarse,<br>micaceous, brown..... 3.0 17.0<br>Sand, fine to medium,<br>micaceous, brown..... 20.0 37.0<br>Sand, very fine to fine;<br>some silt, light gray,<br>laminated..... 12.0 49.0 |                          |                 | <b>SOMERSWORTH 6.</b> W18-3. Alt. 215 ft.<br>Lat. 43°14'05". Long. 70°53'57".<br>Unconsolidated deposits,<br>undifferentiated..... 28 28<br>Bedrock..... 97 125                                                                                                                                                                                                                                                              |                          |                 | <b>SOMERSWORTH 18.</b> X18-1. Alt. 160 ft.<br>Lat. 43°14'37". Long. 70°52'05".<br>Unconsolidated deposits,<br>undifferentiated:<br>Topsoil..... 2 2<br>Sand, coarse; some iron stain. 5 7<br>Sand, coarse, and clay..... 3 10<br>Marine deposits:<br>Clay; some sand, fine..... 10 20<br>Clay; a little sand, fine..... 10 30<br>Clay..... 12 42<br>Bedrock..... 42                                                                                                                                                                                     |                          |                 |
| <b>ROLLINSFORD 10.</b> X18-1. Alt. 130 ft.<br>Lat. 43°13'52". Long. 70°50'25".<br>Geologist's log.<br>Outwash and shore deposits:<br>Artificial fill..... 2.5 2.5<br>Sand, fine to medium,<br>micaceous, moderately clean<br>to dirty, rusty brown..... 9.5 12.0<br>Sand, very fine to fine; some<br>silt; a little scattered<br>sand, coarse..... 10.0 22.0                                                                                                                                                  |                          |                 | <b>SOMERSWORTH 7.</b> W18-3. Alt. 220 ft.<br>Lat. 43°14'17". Long. 70°53'53".<br>Unconsolidated deposits,<br>undifferentiated..... 6 6<br>Bedrock..... 80 86                                                                                                                                                                                                                                                                 |                          |                 | <b>SOMERSWORTH 19.</b> X18-1. Alt. 203 ft.<br>Lat. 43°14'38". Long. 70°52'26".<br>Ice-contact deposits:<br>Sand, fine..... 2.0 2.0<br>Sand, coarse, rusty..... 3.0 5.0<br>Sand, medium to coarse, white. 5.0 10.0<br>Sand, fine; some silt..... 5.0 15.0<br>Sand, fine to coarse; some<br>silt..... 5.0 20.0<br>Sand, gray; some silt..... 7.0 27.0<br>Till:<br>Clay and rocks..... 0.5 27.5<br>Gravel, dark gray; some sharp<br>broken ledge..... 1.5 29.0<br>Gravel, hard-packed, and sand,<br>gray; some silt..... 6.0 35.0<br>Bedrock..... 0.5 35.5 |                          |                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                          |                 | <b>SOMERSWORTH 12.</b> X18-1. Alt. 180 ft.<br>Lat. 43°14'34". Long. 70°52'15".<br>Ice-contact deposits:<br>Sand, very fine, white..... 10 10<br>Sand, very fine, white;<br>stratified layers about<br>2" thick of sand, fine, and<br>clay, gray..... 10 20<br>Sand, very fine, gray; some<br>clay and silt..... 5 25<br>Sand, very fine, hard, gray;<br>some clay..... 5 30<br>Clay, hard, gray..... 3 33<br>Refusal..... 33 |                          |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                          |                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                          |                 | <b>SOMERSWORTH 13.</b> X18-1. Alt. 160 ft.<br>Lat. 43°14'35". Long. 70°52'05".<br>Marine deposits:<br>Topsoil..... 1.0 1.0<br>Gravel, fine, and sand, coarse<br>Clay; a little sand, fine..... 17.5 20.0<br>Clay, hard, blue-gray, and<br>silt..... 13.0 33.0                                                                                                                                                                |                          |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                          |                 |

Table 4.--Logs of selected wells and test holes in southeastern New Hampshire--Continued

| Thick-<br>ness<br>(Feet)                                                | Depth<br>(Feet) |      | Thick-<br>ness<br>(Feet)                                                | Depth<br>(Feet) |      | Thick-<br>ness<br>(Feet)                                                | Depth<br>(Feet) |      |
|-------------------------------------------------------------------------|-----------------|------|-------------------------------------------------------------------------|-----------------|------|-------------------------------------------------------------------------|-----------------|------|
| SOMERSWORTH 20. W18-3. Alt. 200 ft.<br>Lat. 43°14'35". Long. 70°52'34". |                 |      | SOMERSWORTH 26. W18-3. Alt. 200 ft.<br>Lat. 43°14'47". Long. 70°53'14". |                 |      | SOMERSWORTH 35. W19-9. Alt. 193 ft.<br>Lat. 43°17'00". Long. 70°54'05". |                 |      |
| Ice-contact deposits:                                                   |                 |      | Ice-contact deposits:                                                   |                 |      | Ice-contact deposits:                                                   |                 |      |
| Topsoil.....                                                            | 1.0             | 1.0  | Gravel, coarse, red.....                                                | 5.0             | 5.0  | Clay, hard, dry.....                                                    | 10              | 10   |
| Sand, coarse, brown.....                                                | 4.0             | 5.0  | Gravel, coarse, gray.....                                               | 12.0            | 17.0 | Clay, hard, dry; some boulders                                          | 2               | 12   |
| Sand, medium to coarse.....                                             | 5.0             | 10.0 | Bedrock.....                                                            | 0.5             | 17.5 | Sand, coarse, hard, tight,                                              |                 |      |
| Sand, coarse, rusty.....                                                | 5.0             | 15.0 |                                                                         |                 |      | gray.....                                                               | 6               | 18   |
| Sand, fine.....                                                         | 1.0             | 16.0 | SOMERSWORTH 27. W18-3. Alt. 190 ft.<br>Lat. 43°14'52". Long. 70°52'57". |                 |      | Sand, fine, red; some silt....                                          | 6               | 24   |
| Sand, coarse, light brown;                                              |                 |      | Ice-contact deposits:                                                   |                 |      | Sand, medium, gray (contains                                            |                 |      |
| streaks of iron stain. Very                                             |                 |      | Sand, medium, and gravel, hard                                          |                 |      | water).....                                                             | 8               | 32   |
| coarse near bottom.....                                                 | 4.0             | 20.0 | Bedrock.....                                                            |                 |      | Refusal.....                                                            |                 | 32   |
| Gravel, coarse, dark; some                                              |                 |      |                                                                         | 0.3             | 15.3 |                                                                         |                 |      |
| sharp stones.....                                                       | 2.5             | 22.5 | SOMERSWORTH 28. W18-3. Alt. 205 ft.<br>Lat. 43°14'52". Long. 70°52'57". |                 |      | SOMERSWORTH 36. W19-9. Alt. 198 ft.<br>Lat. 43°16'50". Long. 70°54'17". |                 |      |
| Bedrock.....                                                            |                 | 22.5 | Ice-contact deposits:                                                   |                 |      | Ice-contact deposits:                                                   |                 |      |
| SOMERSWORTH 21. W19-9. Alt. 190 ft.<br>Lat. 43°15'13". Long. 70°53'24". |                 |      | Sand, medium, and gravel.....                                           |                 |      | Clay, hard, dry.....                                                    | 5.0             | 5.0  |
| Ice-contact deposits:                                                   |                 |      | Bedrock.....                                                            |                 |      | Sand, fine, gray.....                                                   | 3.0             | 8.0  |
| Sand, fine to medium.....                                               | 3               | 3    |                                                                         | 15              |      | Sand, coarse, gray; a few                                               |                 |      |
| Sand, medium to coarse; some                                            |                 |      | SOMERSWORTH 29. X18-1. Alt. 160 ft.<br>Lat. 43°14'57". Long. 70°52'00". |                 |      | large boulders.....                                                     | 2.0             | 10.0 |
| silt.....                                                               | 2               | 5    | Marine deposits:                                                        |                 |      | Boulders, large, and sand,                                              |                 |      |
| Sand, fine; some silt and clay.                                         | 15              | 20   | Topsoil.....                                                            |                 |      | coarse, gray.....                                                       | 2.5             | 12.5 |
| Sand, fine to medium; some                                              |                 |      | Clay.....                                                               |                 |      | Sand, coarse, gray, and gravel                                          | 1.5             | 14.0 |
| layers of clay.....                                                     | 5               | 25   | Gravel.....                                                             |                 |      |                                                                         |                 |      |
| Sand, fine; some silt.....                                              | 3               | 28   | Bedrock.....                                                            |                 |      | SOMERSWORTH 37. W19-9. Alt. 194 ft.<br>Lat. 43°16'49". Long. 70°54'07". |                 |      |
| Sand, coarse, brown and black;                                          |                 |      |                                                                         | 2               | 8    | Ice-contact deposits:                                                   |                 |      |
| some iron stain, and a little                                           |                 |      |                                                                         |                 | 8    | Loam.....                                                               | 2               | 2    |
| silt (water-bearing).....                                               | 12              | 40   | SOMERSWORTH 30. W19-9. Alt. 193 ft.<br>Lat. 43°16'52". Long. 70°53'48". |                 |      | Gravel, medium.....                                                     | 4               | 6    |
| Sand, coarse, and gravel.....                                           | 10              | 50   | Outwash and shore deposits:                                             |                 |      | Sand, coarse, brown; some                                               |                 |      |
| Sand, coarse, dark gray; very                                           |                 |      | Loam.....                                                               |                 |      | iron stain.....                                                         | 7               | 13   |
| little silt.....                                                        | 5               | 55   | Subsoil.....                                                            |                 |      | Sand, medium to coarse,                                                 |                 |      |
| Sand, hard, dark; some sharp                                            |                 |      | Sand, coarse, no iron stain..                                           |                 |      | reddish.....                                                            | 5               | 18   |
| flaky stones.....                                                       | 2               | 57   | Marine deposits:                                                        |                 |      | Sand, fine, light; some silt..                                          | 10              | 28   |
| SOMERSWORTH 22. W19-9. Alt. 187 ft.<br>Lat. 43°15'19". Long. 70°53'32". |                 |      | Clay, heavy, dark yellow.....                                           |                 |      | Sand, fine, light; more silt                                            |                 |      |
| Ice-contact deposits:                                                   |                 |      | Ice-contact deposits:                                                   |                 |      | than 18'-28'.....                                                       | 5               | 33   |
| Topsoil.....                                                            | 2               | 2    | Sand, coarse; some silt,                                                |                 |      | Sand, medium, white, and                                                |                 |      |
| Sand, coarse, and gravel; some                                          |                 |      | no iron stain.....                                                      |                 |      | gravel; some silt.....                                                  | 15              | 48   |
| iron stain.....                                                         | 8               | 10   | Bedrock.....                                                            |                 |      | Bedrock.....                                                            |                 | 48   |
| Clay.....                                                               | 1               | 11   |                                                                         | 2               | 21   |                                                                         |                 |      |
| Gravel, coarse, gray; a little                                          |                 |      | SOMERSWORTH 31. W19-9. Alt. 195 ft.<br>Lat. 43°16'50". Long. 70°53'50". |                 |      | SOMERSWORTH 38. W19-9. Alt. 185 ft.<br>Lat. 43°16'55". Long. 70°54'06". |                 |      |
| iron stain.....                                                         | 3               | 14   | Marine deposits:                                                        |                 |      | Ice-contact deposits:                                                   |                 |      |
| SOMERSWORTH 23. W19-9. Alt. 190 ft.<br>Lat. 43°15'15". Long. 70°53'20". |                 |      | Loam.....                                                               |                 |      | Topsoil.....                                                            | 2               | 2    |
| Ice-contact deposits:                                                   |                 |      | Clay, fine, sandy.....                                                  |                 |      | Sand, fine.....                                                         | 3               | 5    |
| Sand, fine to medium, white;                                            |                 |      | Clay, heavy.....                                                        |                 |      | Sand, medium, red.....                                                  | 28              | 33   |
| some iron stain.....                                                    | 15              | 15   | Clay, very heavy.....                                                   |                 |      | Sand, medium to coarse, gray..                                          | 9               | 42   |
| Sand, fine; some silt.....                                              | 5               | 20   | Ice-contact deposits:                                                   |                 |      | Sand, fine to medium; some                                              |                 |      |
| Sand, fine.....                                                         | 5               | 25   | Gravel.....                                                             |                 |      | silt.....                                                               | 13              | 55   |
| Sand, fine; some silt.....                                              | 10              | 35   | Bedrock.....                                                            |                 |      | Sand, medium; some silt and                                             |                 |      |
| Sand, coarse; streaks of iron                                           |                 |      |                                                                         | 1               | 20   | layers of clay.....                                                     | 5               | 60   |
| stain; some silt.....                                                   | 5               | 40   | SOMERSWORTH 32. W19-9. Alt. 200 ft.<br>Lat. 43°16'59". Long. 70°54'08". |                 |      | Bedrock.....                                                            |                 | 60   |
| Sand, coarse; some silt.....                                            | 5               | 45   | Ice-contact deposits:                                                   |                 |      | SOMERSWORTH 39. W19-9. Alt. 184 ft.<br>Lat. 43°16'54". Long. 70°54'07". |                 |      |
| Gravel.....                                                             | 1               | 46   | Topsoil.....                                                            |                 |      | Ice-contact deposits:                                                   |                 |      |
| SOMERSWORTH 24. W19-9. Alt. 210 ft.<br>Lat. 43°15'22". Long. 70°53'05". |                 |      | Sand, fine; some iron stain..                                           |                 |      | Topsoil.....                                                            | 15              | 15   |
| Ice-contact deposits:                                                   |                 |      | Sand, medium, layered; some                                             |                 |      | Sand, medium, slightly red;                                             |                 |      |
| Loam.....                                                               | 2               | 2    | iron stain.....                                                         |                 |      | some iron stain.....                                                    | 5               | 20   |
| Hardpan (possibly iron                                                  |                 |      | Sand, medium to coarse,                                                 |                 |      | Sand, fine, gray; little                                                |                 |      |
| cementation).....                                                       | 4               | 6    | layered; some iron stain....                                            |                 |      | iron stain.....                                                         | 5               | 25   |
| Sand, coarse, light.....                                                | 4               | 10   | Sand, medium to coarse.....                                             |                 |      | Sand, coarse, gray; little                                              |                 |      |
| Sand, coarse, red.....                                                  | 9               | 19   | Sand, medium; about 20% silt..                                          |                 |      | iron stain.....                                                         | 5               | 30   |
| Bedrock.....                                                            |                 | 19   | Sand, medium; about 10% silt..                                          |                 |      | Sand, medium to coarse, gray;                                           |                 |      |
| SOMERSWORTH 25. W18-3. Alt. 190 ft.<br>Lat. 43°14'51". Long. 70°53'03". |                 |      | Sand, fine; about 20% silt....                                          |                 |      | little iron stain.....                                                  | 5               | 35   |
| Ice-contact deposits:                                                   |                 |      | Sand, medium; about 10-20%                                              |                 |      | Sand, medium to coarse,                                                 |                 |      |
| Sand, coarse, light.....                                                | 10              | 10   | silt.....                                                               |                 |      | changing to sand, fine,                                                 |                 |      |
| Sand, coarse; streaks of                                                |                 |      | Silt, some sand.....                                                    |                 |      | gray.....                                                               | 10              | 45   |
| gravel, fine.....                                                       | 7               | 17   | Sand, coarse.....                                                       |                 |      | Sand, medium to coarse,                                                 |                 |      |
| Sand, very coarse, and gravel;                                          |                 |      |                                                                         | 18              | 68   | gray.....                                                               | 2               | 47   |
| some silt.....                                                          | 3               | 20   | SOMERSWORTH 33. W19-9. Alt. 180 ft.<br>Lat. 43°16'58". Long. 70°53'59". |                 |      | Sand, very coarse, and gravel,                                          |                 |      |
| Sand, coarse.....                                                       | 5               | 25   | Marine deposits:                                                        |                 |      | very hard; some iron stain..                                            | 2               | 49   |
| Till:                                                                   |                 |      | Topsoil and clay.....                                                   |                 |      | Refusal (probably ledge).....                                           |                 | 49   |
| Clay and gravel.....                                                    | 3               | 28   | Clay.....                                                               |                 |      |                                                                         |                 |      |
| Gravel, coarse.....                                                     | 2               | 30   | Clay, sandy.....                                                        |                 |      | SOMERSWORTH 40. W19-9. Alt. 200 ft.<br>Lat. 43°16'00". Long. 70°53'51". |                 |      |
| Bedrock.....                                                            |                 | 30   | Ice-contact deposits:                                                   |                 |      | Ice-contact deposits:                                                   |                 |      |
|                                                                         |                 |      | Sand, silty.....                                                        |                 |      | Gravel, coarse, gray.....                                               | 3               | 3    |
|                                                                         |                 |      | Clay, gravel, and sand, coarse                                          |                 |      | Sand, coarse, brown, and                                                |                 |      |
|                                                                         |                 |      | Sand, coarse, and gravel; a                                             |                 |      | cobble-stones.....                                                      | 2               | 5    |
|                                                                         |                 |      | little silt.....                                                        |                 |      | Gravel, coarse, red.....                                                | 1               | 6    |
|                                                                         |                 |      | Bedrock.....                                                            |                 |      | Sand, coarse, and gravel,                                               |                 |      |
|                                                                         |                 |      |                                                                         | 13              | 48   | slightly red.....                                                       | 14              | 20   |
|                                                                         |                 |      |                                                                         |                 | 48   | Bedrock.....                                                            | 1               | 21   |
|                                                                         |                 |      | SOMERSWORTH 34. W19-9. Alt. 190 ft.<br>Lat. 43°17'05". Long. 70°54'04". |                 |      | SOMERSWORTH 41. W19-9. Alt. 205 ft.<br>Lat. 43°15'52". Long. 70°54'05". |                 |      |
|                                                                         |                 |      | Ice-contact deposits:                                                   |                 |      | Ice-contact deposits:                                                   |                 |      |
|                                                                         |                 |      | Sand, hardpan; and boulders...                                          |                 |      | Topsoil.....                                                            | 3               | 3    |
|                                                                         |                 |      |                                                                         | 6               | 6    | Clay and sand.....                                                      | 2               | 5    |
|                                                                         |                 |      |                                                                         |                 |      | Gravel, very coarse.....                                                | 5               | 10   |

Table 5. Water-level fluctuations in selected wells in southeastern New Hampshire.

(In feet below land-surface datum)

## ROCKINGHAM COUNTY

| Date        | Water level | Date        | Water level | Date         | Water level |
|-------------|-------------|-------------|-------------|--------------|-------------|
| BRENTWOOD 2 |             |             |             |              |             |
| Oct. 4 1955 | 20.60       | May 29 1956 | 17.65       | June 29 1956 | 19.27       |

|                                                                           |       |              |       |              |       |
|---------------------------------------------------------------------------|-------|--------------|-------|--------------|-------|
| EXETER 13                                                                 |       |              |       |              |       |
| May 18 1956                                                               | 11.18 | July 31 1956 | 10.96 | Nov. 30 1956 | 11.65 |
| 29 1956                                                                   | 9.35  | Oct. 30 1956 | 10.21 | Dec. 28 1956 | 9.89  |
| 1/ Water level probably affected by recent pumping in adjacent test well. |       |              |       |              |       |

|                                                                                                |       |               |       |              |       |
|------------------------------------------------------------------------------------------------|-------|---------------|-------|--------------|-------|
| GREENLAND 2 1/                                                                                 |       |               |       |              |       |
| Jan. 8 1954                                                                                    | 37.40 | Sept. 30 1954 | 35.92 | Jan. 31 1956 | 37.10 |
| 29 1954                                                                                        | 37.21 | Nov. 1 1954   | 36.90 | Apr. 30 1956 | 37.13 |
| Feb. 26 1954                                                                                   | 37.17 | 30 1954       | 37.04 | May 31 1956  | 35.76 |
| Mar. 31 1954                                                                                   | 37.04 | 1955          |       | Oct. 11 1956 | 37.74 |
| Apr. 30 1954                                                                                   | 36.74 | Jan. 3 1955   | 36.00 | Nov. 29 1956 | 37.23 |
| June 1 1954                                                                                    | 33.99 | Mar. 30 1955  | 36.41 | Oct. 1 1957  | 38.32 |
| July 1 1954                                                                                    | 36.06 | July 1 1955   | 37.25 |              |       |
| 29 1954                                                                                        | 37.02 | Aug. 30 1955  | 37.59 |              |       |
| Sept. 2 1954                                                                                   | 37.30 | Nov. 30 1955  | 37.06 |              |       |
| 1/ Water levels affected by continuous pumping in Greenland 1, located about 1,300 feet north. |       |               |       |              |       |

|              |       |               |       |              |       |
|--------------|-------|---------------|-------|--------------|-------|
| HAMPTON 1    |       |               |       |              |       |
| Dec. 8 1953  | 18.82 | May 2 1955    | 10.40 | Aug. 29 1956 | 20.87 |
| 1954         |       | 31 1955       | 14.10 | Oct. 2 1956  | 23.08 |
| Jan. 29 1954 | 14.78 | June 30 1955  | 15.62 | 30 1956      | 23.78 |
| Feb. 26 1954 | 13.99 | July 22 1955  | 17.58 | Nov. 30 1956 | 17.66 |
| Mar. 31 1954 | 11.14 | Aug. 2 1955   | 18.65 | Dec. 28 1956 | 13.15 |
| Apr. 30 1954 | 9.78  | 30 1955       | 20.64 | 1957         |       |
| May 28 1954  | 6.88  | Sept. 29 1955 | 22.57 | Feb. 25 1957 | 13.52 |
| July 1 1954  | 13.48 | Oct. 31 1955  | 21.49 | May 1 1957   | 13.40 |
| 29 1954      | 16.40 | Nov. 30 1955  | 11.99 | June 28 1957 | 18.04 |
| Sept. 2 1954 | 17.09 | Dec. 27 1955  | 14.53 | July 25 1957 | 20.69 |
| 30 1954      | 10.69 | 1956          |       | Aug. 21 1957 | 22.96 |
| Nov. 1 1954  | 14.43 | Jan. 31 1956  | 12.01 | Oct. 1 1957  | 25.06 |
| 30 1954      | 12.31 | Feb. 29 1956  | 12.43 | 30 1957      | 26.08 |
| 1955         |       | Mar. 30 1956  | 12.58 | Nov. 13 1957 | 26.45 |
| Jan. 3 1955  | 8.03  | Apr. 27 1956  | 6.29  | 18 1957      | 26.49 |
| Feb. 4 1955  | 13.74 | June 2 1956   | 13.02 | 26 1957      | 26.53 |
| Mar. 2 1955  | 12.25 | 29 1956       | 15.15 | Dec. 4 1957  | 26.21 |
| 30 1955      | 11.33 | Aug. 1 1956   | 18.11 |              |       |

|              |       |              |       |              |       |
|--------------|-------|--------------|-------|--------------|-------|
| HAMPTON 2    |       |              |       |              |       |
| Dec. 11 1953 | 27.95 | July 29 1954 | 26.84 | May 2 1955   | 26.58 |
| 1954         |       | Sept. 2 1954 | 27.10 | June 30 1955 | 27.34 |
| Jan. 29 1954 | 27.35 | 30 1954      | 25.64 | Aug. 30 1955 | 28.29 |
| Feb. 26 1954 | 27.36 | Nov. 1 1954  | 26.56 | Nov. 30 1955 | 26.56 |
| Mar. 31 1954 | 26.93 | 30 1954      | 26.60 | 1956         |       |
| Apr. 30 1954 | 26.14 | 1955         |       | Jan. 26 1956 | 26.67 |
| May 28 1954  | 24.28 | Jan. 3 1955  | 25.56 | Oct. 30 1956 | 28.30 |
| July 1 1954  | 25.93 | Mar. 30 1955 | 26.21 | 1957         |       |
|              |       |              |       | Oct. 1 1957  | Dry   |

|                 |      |              |      |              |      |
|-----------------|------|--------------|------|--------------|------|
| HAMPTON FALLS 1 |      |              |      |              |      |
| Dec. 4 1953     | 1.91 | Apr. 30 1954 | 0.49 | Nov. 1 1954  | 0.55 |
| 1954            |      | May 28 1954  | 0.49 | 30 1954      | 0.45 |
| Jan. 29 1954    | 0.66 | July 1 1954  | 0.78 | 1955         |      |
| Feb. 26 1954    | 0.46 | Sept. 2 1954 | 0.89 | Mar. 30 1955 | 0.47 |
| Mar. 31 1954    | 0.77 | 30 1954      | 0.56 | June 30 1955 | 2.58 |

| Date            | Water level | Date        | Water level | Date         | Water level |
|-----------------|-------------|-------------|-------------|--------------|-------------|
| HAMPTON FALLS 6 |             |             |             |              |             |
| Apr. 17 1956    | 21.00       | Aug. 1 1956 | 24.50       | Oct. 30 1956 | 30.05       |

|              |       |              |       |              |       |
|--------------|-------|--------------|-------|--------------|-------|
| KENSINGTON 2 |       |              |       |              |       |
| July 13 1954 | 10.52 | June 29 1956 | 11.82 | Nov. 30 1956 | 12.20 |
| 1956         |       | Aug. 1 1956  | 13.70 | 1957         |       |
| May 29 1956  | 9.00  | Oct. 30 1956 | 16.73 | Oct. 1 1957  | 21.32 |

|              |       |              |       |              |       |
|--------------|-------|--------------|-------|--------------|-------|
| KINGSTON 10  |       |              |       |              |       |
| May 17 1956  | 11.57 | Oct. 30 1956 | 14.06 | May 30 1957  | 13.41 |
| 29 1956      | 12.08 | Nov. 30 1956 | 13.95 | June 28 1957 | 13.71 |
| June 29 1956 | 12.94 | Dec. 28 1956 | 13.48 | Aug. 21 1957 | 14.52 |
| Aug. 1 1956  | 13.47 | 1957         |       | Oct. 1 1957  | 14.96 |
| 31 1956      | 13.89 | Feb. 6 1957  | 13.10 | 30 1957      | 15.00 |
| Oct. 11 1956 | 14.08 | May 1 1957   | 13.09 | Nov. 13 1957 | 14.78 |

|              |      |              |      |              |      |
|--------------|------|--------------|------|--------------|------|
| KINGSTON 12  |      |              |      |              |      |
| June 18 1956 | 5.27 | Aug. 31 1956 | 7.30 | Nov. 30 1956 | 7.87 |
| 29 1956      | 5.80 | Oct. 30 1956 | 8.74 | Dec. 28 1956 | 6.33 |
| Aug. 1 1956  | 7.04 |              |      |              |      |

|               |       |              |       |              |       |
|---------------|-------|--------------|-------|--------------|-------|
| NEWFIELDS 4   |       |              |       |              |       |
| Sept. 29 1955 | 39.97 | Feb. 29 1956 | 36.20 | Aug. 1 1956  | 39.07 |
| Oct. 31 1955  | 40.41 | Mar. 29 1956 | 37.64 | Oct. 30 1956 | 40.48 |
| Nov. 30 1955  | 38.90 | Apr. 30 1956 | 34.72 | Nov. 29 1956 | 40.78 |
| Dec. 27 1955  | 38.59 | May 29 1956  | 35.73 | 1957         |       |
| 1956          |       | June 29 1956 | 38.16 | Oct. 1 1957  | 41.54 |
| Jan. 31 1956  | 36.42 |              |       |              |       |

|              |      |              |      |               |      |
|--------------|------|--------------|------|---------------|------|
| NEWINGTON 3  |      |              |      |               |      |
| Jan. 4 1954  | 3.09 | July 29 1954 | 3.06 | Sept. 30 1955 | 3.15 |
| 29 1954      | 3.03 | Sept. 2 1954 | 3.08 | Oct. 31 1955  | 3.83 |
| Feb. 15 1954 | 3.07 | 30 1954      | 2.83 | Nov. 30 1955  | 2.79 |
| 26 1954      | 2.97 | Nov. 1 1954  | 3.24 | 1956          |      |
| Mar. 30 1954 | 2.96 | 30 1954      | 2.88 | Jan. 31 1956  | 3.38 |
| Apr. 30 1954 | 3.04 | 1955         |      | Apr. 30 1956  | 2.60 |
| June 1 1954  | 2.87 | Mar. 30 1955 | 2.91 | Aug. 1 1956   | 3.18 |
| July 1 1954  | 2.97 | July 1 1955  | 3.07 | Oct. 11 1956  | 3.56 |
|              |      | Aug. 30 1955 | 3.08 |               |      |

|              |      |              |      |              |      |
|--------------|------|--------------|------|--------------|------|
| NEWINGTON 4  |      |              |      |              |      |
| Jan. 8 1954  | 6.70 | July 29 1954 | 3.30 | Mar. 30 1955 | 1.81 |
| 29 1954      | 6.53 | Sept. 2 1954 | 4.30 | July 1 1955  | 4.82 |
| Feb. 26 1954 | 4.96 | 30 1954      | 2.30 | Aug. 30 1955 | 6.59 |
| Mar. 30 1954 | 4.25 | Nov. 1 1954  | 2.99 | Nov. 30 1955 | 4.13 |
| Apr. 30 1954 | 3.33 | 30 1954      | 1.60 | 1956         |      |
| June 1 1954  | 0.64 | 1955         |      | Apr. 30 1956 | 0.42 |
| July 1 1954  | 1.01 | Jan. 3 1955  | 0.90 | May 31 1956  | 2.77 |

|              |       |              |       |              |       |
|--------------|-------|--------------|-------|--------------|-------|
| NEWINGTON 7  |       |              |       |              |       |
| Sept. 2 1955 | 26.59 | Aug. 1 1956  | 26.15 | June 10 1957 | 26.95 |
| 1956         |       | Oct. 11 1956 | 27.57 | Oct. 1 1957  | 28.78 |
| Jan. 26 1956 | 25.62 | Nov. 30 1956 | 27.76 | Nov. 12 1957 | 28.91 |
| Apr. 30 1956 | 23.34 | Dec. 28 1956 | 27.12 | 26 1957      | 28.90 |
| May 31 1956  | 24.20 |              |       |              |       |
| June 29 1956 | 25.21 |              |       |              |       |

Table 5. Water-level fluctuations in selected wells in southeastern New Hampshire--Continued

(In feet below land-surface datum)

## ROCKINGHAM COUNTY (Continued)

| Date             | Water level | Date            | Water level | Date           | Water level |
|------------------|-------------|-----------------|-------------|----------------|-------------|
| NEWMARKET 3      |             |                 |             |                |             |
| 1955<br>Sept. 13 | 16.27       | 1955<br>Dec. 27 | 16.68       | 1956<br>May 29 | 14.32       |
| 29               | 16.46       | 1956<br>Jan. 31 | 16.34       | June 29        | 14.36       |
| Oct. 31          | 16.62       | Apr. 30         | 14.81       | Aug. 1         | 14.83       |
| Nov. 30          | 16.35       |                 |             | Oct. 30        | 16.50       |

|                 |      |                 |      |                 |      |
|-----------------|------|-----------------|------|-----------------|------|
| NEWTON 1        |      |                 |      |                 |      |
| 1955<br>Nov. 7  | 3.45 | 1956<br>Apr. 27 | 3.93 | 1956<br>Oct. 30 | 6.54 |
| Dec. 27         | 7.05 | May 29          | 5.33 | Nov. 30         | 5.16 |
| 1956<br>Jan. 31 | 5.40 | Aug. 1          | 7.59 | Dec. 28         | 4.68 |
| Feb. 29         | 4.81 | Oct. 5          | 7.28 | 1957<br>Oct. 1  | Dry  |

|                 |       |                |       |                |       |
|-----------------|-------|----------------|-------|----------------|-------|
| PLAISTOW 3      |       |                |       |                |       |
| 1955<br>Dec. 5  | 19.05 | 1956<br>Feb. 8 | 19.23 | 1956<br>May 14 | 17.57 |
| 6               | 18.92 | 9              | 19.16 | 15             | 17.67 |
| 7               | 18.88 | 10             | 19.15 | 16             | 17.80 |
| 8               | 18.88 | 11             | 19.15 | 17             | 17.90 |
| 9               | 18.91 | 12             | 18.88 | 18             | 18.04 |
| 10              | 19.00 | 13             | 18.76 | 19             | 18.16 |
| 11              | 19.13 | 14             | 18.67 | 20             | 18.24 |
| 12              | 19.23 | 15             | 18.55 | 21             | 18.34 |
| 13              | 19.34 | 16             | 18.48 | 22             | 18.42 |
| 14              | 19.42 | 17             | 18.47 | 23             | 18.48 |
| 15              | 19.48 | 18             | 18.48 | 24             | 18.56 |
| 16              | 19.51 | 19             | 18.53 | 25             | 18.64 |
| 17              | 19.58 | 20             | 18.68 | 26             | 18.72 |
| 18              | 19.65 | 21             | 18.78 | 27             | 18.76 |
| 19              | 19.71 | 22             | 18.88 | 28             | 18.76 |
| 20              | 19.76 | 23             | 18.98 | 29             | 18.73 |
| 21              | 19.82 | 24             | 19.09 | 30             | 18.73 |
| 22              | 19.88 | 25             | 19.07 | 31             | 18.74 |
| 23              | 19.94 | 26             | 19.06 | June 1         | 18.82 |
| 24              | 19.98 | 27             | 19.07 | 2              | 18.92 |
| 25              | 20.04 | 28             | 19.05 | 3              | 19.01 |
| 26              | 20.10 | 29             | 19.07 | 4              | 19.08 |
| 27              | 20.17 | Mar. 1         | 19.12 | 5              | 19.09 |
| 28              | 20.26 | 2              | 19.13 | 6              | 19.11 |
| 29              | 20.31 | 3              | 18.52 | 7              | 19.17 |
| 30              | 20.34 | 4              | 17.41 | 8              | 19.23 |
| 1956<br>Jan. 12 | 15.20 | 5              | 17.30 | 9              | 19.32 |
| 13              | 13.65 | 6              | 17.36 | 10             | 19.39 |
| 14              | 13.66 | 7              | 17.60 | 11             | 19.44 |
| 15              | 14.71 | 8              | 17.71 | 12             | 19.51 |
| 16              | 15.50 | 9              | 17.75 | 13             | 19.56 |
| 17              | 16.01 | 10             | 18.02 | 14             | 19.62 |
| 18              | 16.50 | 30             | 19.23 | 15             | 19.68 |
| 19              | 16.97 | 31             | 19.24 | 16             | 19.74 |
| 20              | 17.29 | Apr. 1         | 18.92 | 17             | 19.80 |
| 21              | 17.67 | 2              | 17.89 | 18             | 19.85 |
| 22              | 17.86 | 3              | 16.23 | 19             | 19.90 |
| 23              | 18.08 | 4              | 14.40 | 20             | 19.94 |
| 24              | 18.23 | 28             | 15.87 | 21             | 19.99 |
| 25              | 18.39 | 29             | 15.83 | 22             | 20.02 |
| 26              | 18.55 | 30             | 15.21 | 23             | 20.08 |
| 27              | 18.67 | May 1          | 15.10 | 24             | 20.12 |
| 28              | 18.77 | 2              | 15.13 | 25             | 20.16 |
| 29              | 18.85 | 3              | 15.44 | 26             | 20.21 |
| 30              | 18.86 | 4              | 15.77 | 27             | 20.25 |
| 31              | 18.91 | 5              | 16.12 | 28             | 20.30 |
| Feb. 1          | 19.08 | 6              | 16.42 | 29             | 20.34 |
| 2               | 19.14 | 7              | 16.63 | 30             | 20.39 |
| 3               | 19.14 | 8              | 16.82 | July 1         | 20.43 |
| 4               | 19.23 | 9              | 17.00 | 2              | 20.46 |
| 5               | 19.28 | 10             | 17.11 | 3              | 20.50 |
| 6               | 19.35 | 11             | 17.24 | 4              | 20.54 |
| 7               | 19.34 | 12             | 17.35 | 5              | 20.57 |
|                 |       | 13             | 17.42 | 6              | 20.60 |

|                        |       |                  |       |                 |       |
|------------------------|-------|------------------|-------|-----------------|-------|
| PLAISTOW 3 (Continued) |       |                  |       |                 |       |
| 1956<br>July 7         | 20.63 | 1956<br>Sept. 16 | 22.09 | 1956<br>Nov. 26 | 21.83 |
| 8                      | 20.67 | 17               | 22.10 | 27              | 21.54 |
| 9                      | 20.69 | 18               | 22.10 | 28              | 21.40 |
| 10                     | 20.72 | 19               | 22.13 | 29              | 21.35 |
| 11                     | 20.75 | 20               | 22.14 | 30              | 21.32 |
| 12                     | 20.78 | 21               | 22.15 | Dec. 1          | 21.32 |
| 13                     | 20.81 | 22               | 22.16 | 2               | 21.35 |
| 14                     | 20.83 | 23               | 22.17 | 3               | 21.40 |
| 15                     | 20.85 | 24               | 22.18 | 4               | 21.41 |
| 16                     | 20.88 | 25               | 22.19 | 5               | 21.49 |
| 17                     | 20.90 | 26               | 22.21 | 6               | 21.50 |
| 18                     | 20.94 | 27               | 22.22 | 7               | 21.51 |
| 19                     | 20.96 | 28               | 22.22 | 8               | 21.52 |
| 20                     | 20.99 | 29               | 22.22 | 9               | 21.53 |
| 21                     | 21.02 | 30               | 22.23 | 10              | 21.55 |
| 22                     | 21.04 | Oct. 1           | 22.23 | 11              | 21.55 |
| 23                     | 21.06 | 2                | 22.23 | 12              | 21.46 |
| 24                     | 21.08 | 3                | 22.23 | 13              | 21.07 |
| 25                     | 21.10 | 4                | 22.24 | 14              | 20.75 |
| 26                     | 21.12 | 5                | 22.24 | 15              | 20.68 |
| 27                     | 21.15 | 6                | 22.25 | 16              | 20.66 |
| 28                     | 21.17 | 7                | 22.25 | 17              | 20.57 |
| 29                     | 21.20 | 8                | 22.25 | 18              | 20.54 |
| 30                     | 21.23 | 9                | 22.25 | 19              | 20.52 |
| 31                     | 21.25 | 10               | 22.25 | 20              | 20.52 |
| Aug. 1                 | 21.30 | 11               | 22.25 | 21              | 20.56 |
| 2                      | 21.32 | 12               | 22.25 | 22              | 20.60 |
| 3                      | 21.34 | 13               | 22.24 | 28              | 20.51 |
| 4                      | 21.35 | 14               | 22.24 | 29              | 20.52 |
| 5                      | 21.38 | 15               | 22.24 | 30              | 20.52 |
| 6                      | 21.40 | 16               | 22.24 | 31              | 20.59 |
| 7                      | 21.41 | 17               | 22.23 | 1957<br>Jan. 1  | 20.60 |
| 8                      | 21.44 | 18               | 22.23 | 2               | 20.62 |
| 9                      | 21.46 | 19               | 22.24 | 3               | 20.63 |
| 10                     | 21.48 | 20               | 22.25 | 4               | 20.69 |
| 11                     | 21.50 | 21               | 22.25 | 5               | 20.72 |
| 12                     | 21.52 | 22               | 22.25 | 6               | 20.71 |
| 13                     | 21.54 | 23               | 22.23 | 7               | 20.80 |
| 14                     | 21.55 | 24               | 22.24 | 8               | 20.80 |
| 15                     | 21.58 | 25               | 22.25 | 9               | 20.84 |
| 16                     | 21.60 | 26               | 22.22 | 10              | 20.87 |
| 17                     | 21.61 | 27               | 22.17 | 11              | 20.89 |
| 18                     | 21.63 | 28               | 22.15 | 12              | 20.93 |
| 19                     | 21.65 | 29               | 22.14 | 13              | 20.93 |
| 20                     | 21.66 | 30               | 22.13 | 14              | 20.94 |
| 21                     | 21.68 | 31               | 22.13 | Feb. 14         | 20.20 |
| 22                     | 21.70 | Nov. 1           | 22.13 | 15              | 20.50 |
| 23                     | 21.73 | 2                | 22.14 | 16              | 20.53 |
| 24                     | 21.75 | 3                | 22.14 | 17              | 20.56 |
| 25                     | 21.76 | 4                | 22.15 | 18              | 20.58 |
| 26                     | 21.78 | 5                | 22.15 | 19              | 20.60 |
| 27                     | 21.78 | 6                | 22.15 | 20              | 20.58 |
| 28                     | 21.79 | 7                | 22.15 | 21              | 20.54 |
| 29                     | 21.81 | 8                | 22.15 | 22              | 20.46 |
| 30                     | 21.86 | 9                | 22.15 | 23              | 20.20 |
| 31                     | 21.88 | 10               | 22.16 | 24              | 20.15 |
| Sept. 1                | 21.88 | 11               | 22.18 | 25              | 20.14 |
| 2                      | 21.90 | 12               | 22.19 | 26              | 20.15 |
| 3                      | 21.91 | 13               | 22.20 | 27              | 20.17 |
| 4                      | 21.93 | 14               | 22.21 | 28              | 20.17 |
| 5                      | 21.95 | 15               | 22.22 | Mar. 1          | 20.22 |
| 6                      | 21.97 | 16               | 22.23 | 2               | 20.25 |
| 7                      | 21.98 | 17               | 22.23 | 3               | 20.15 |
| 8                      | 21.99 | 18               | 22.24 | 4               | 20.07 |
| 9                      | 22.00 | 19               | 22.24 | 5               | 20.03 |
| 10                     | 22.02 | 20               | 22.25 | 6               | 19.98 |
| 11                     | 22.03 | 21               | 22.23 | 7               | 19.98 |
| 12                     | 22.05 | 22               | 22.22 | 8               | 20.00 |
| 13                     | 22.06 | 23               | 22.17 | 9               | 20.03 |
| 14                     | 22.06 | 24               | 22.08 | 10              | 20.04 |
| 15                     | 22.07 | 25               | 21.98 |                 |       |

Table 5. Water-level fluctuations in selected wells in southeastern New Hampshire--Continued

(In feet below land-surface datum)

## ROCKINGHAM COUNTY (Continued)

| Date                   | Water level | Date    | Water level | Date   | Water level |
|------------------------|-------------|---------|-------------|--------|-------------|
| PLAISTON 3 (Continued) |             |         |             |        |             |
| 1957                   |             | 1957    |             |        |             |
| Mar. 11                | 19.87       | June 10 | 20.82       | Aug. 1 | 21.97       |
| 12                     | 19.80       | 11      | 20.84       | 2      | 22.00       |
| 13                     | 19.78       | 12      | 20.86       | 3      | 22.02       |
| 14                     | 19.78       | 13      | 20.89       | 4      | 22.03       |
| 15                     | 19.79       | 14      | 20.93       | 5      | 22.05       |
| 16                     | 19.80       | 15      | 20.97       | 6      | 22.06       |
| 17                     | 19.78       | 16      | 21.00       | 7      | 22.07       |
| 18                     | 19.78       | 17      | 21.03       | 8      | 22.10       |
| Apr. 4                 | 19.75       | 18      | 21.06       | 9      | 22.11       |
| 5                      | 19.60       | 19      | 21.09       | 10     | 22.12       |
| 6                      | 18.90       | 20      | 21.10       | 11     | 22.13       |
| 7                      | 18.75       | 21      | 21.13       | 12     | 22.15       |
| 8                      | 18.75       | 22      | 21.17       | Oct. 1 | 22.85       |
| 9                      | 18.82       | 23      | 21.20       | 2      | 22.85       |
| 10                     | 18.98       | 24      | 21.22       | 3      | 22.87       |
| 11                     | 18.85       | 25      | 21.25       | 4      | 22.89       |
| 12                     | 18.83       | 26      | 21.28       | 5      | 22.90       |
| 13                     | 18.87       | 27      | 21.30       | 6      | 22.90       |
| 14                     | 18.94       | 28      | 21.33       | 7      | 22.91       |
| 15                     | 19.05       | 29      | 21.35       | 8      | 22.92       |
| 16                     | 19.16       | 30      | 21.36       | 9      | 22.93       |
| 17                     | 19.24       | July 1  | 21.38       | 10     | 22.94       |
| 18                     | 19.33       | 2       | 21.40       | 11     | 22.96       |
| 19                     | 19.40       | 3       | 21.44       | 12     | 22.97       |
| 20                     | 19.46       | 4       | 21.45       | 13     | 22.99       |
| 21                     | 19.49       | 5       | 21.47       | 14     | 23.00       |
| 22                     | 19.57       | 6       | 21.49       | 15     | 23.01       |
| 23                     | 19.64       | 7       | 21.51       | 16     | 23.02       |
| 24                     | 19.67       | 8       | 21.54       | 17     | 23.03       |
| 25                     | 19.75       | 9       | 21.56       | 18     | 23.04       |
| 26                     | 19.81       | 10      | 21.58       | 19     | 23.05       |
| 27                     | 19.84       | 11      | 21.60       | 20     | 23.05       |
| 28                     | 19.88       | 12      | 21.62       | 21     | 23.05       |
| 29                     | 19.92       | 13      | 21.64       | 22     | 23.06       |
| 30                     | 19.96       | 14      | 21.65       | 23     | 23.08       |
| May 2                  | 20.02       | 15      | 21.67       | 24     | 23.09       |
| 3                      | 20.05       | 16      | 21.68       | 25     | 23.10       |
| 4                      | 20.10       | 17      | 21.70       | 26     | 23.11       |
| 5                      | 20.15       | 18      | 21.73       | 27     | 23.12       |
| 6                      | 20.20       | 19      | 21.75       | 28     | 23.13       |
| 7                      | 20.23       | 20      | 21.78       | 29     | 23.15       |
| 8                      | 20.30       | 21      | 21.79       | 30     | 23.16       |
| 31                     | 20.50       | 22      | 21.80       | Nov. 1 | 23.17       |
| June 1                 | 20.53       | 23      | 21.82       | 2      | 23.18       |
| 2                      | 20.55       | 24      | 21.83       | 3      | 23.17       |
| 3                      | 20.59       | 25      | 21.85       | 4      | 23.17       |
| 4                      | 20.63       | 26      | 21.89       | 5      | 23.16       |
| 5                      | 20.66       | 27      | 21.90       | 6      | 23.17       |
| 6                      | 20.69       | 28      | 21.90       | 7      | 23.17       |
| 7                      | 20.72       | 29      | 21.93       | 8      | 23.17       |
| 8                      | 20.75       | 30      | 21.94       | 9      | 23.16       |
| 9                      | 20.78       | 31      | 21.96       | 10     | 23.15       |
|                        |             |         |             | 11     | 23.14       |
|                        |             |         |             | 12     | 23.14       |

## PORTSMOUTH 7

|         |      |         |      |         |      |
|---------|------|---------|------|---------|------|
| 1954    |      | 1954    |      | 1954    |      |
| Jan. 13 | 1.95 | June 1  | 0.90 | Nov. 1  | 1.19 |
| 29      | 1.60 | July 1  | 0.75 | 30      | 1.19 |
| Feb. 26 | 1.17 | 29      | 1.02 | 1955    |      |
| Mar. 31 | 1.18 | Sept. 2 | 1.15 | Jan. 3  | 1.22 |
| Apr. 30 | 1.10 | 30      | 1.00 | Mar. 30 | 1.18 |
|         |      |         |      | July 1  | 1.15 |

| Date         | Water level | Date     | Water level | Date    | Water level |
|--------------|-------------|----------|-------------|---------|-------------|
| PORTSMOUTH 8 |             |          |             |         |             |
| 1954         |             | 1954     |             | 1955    |             |
| Mar. 10      | 2.78        | Sept. 30 | 1.95        | Nov. 30 | 2.27        |
| 31           | 2.75        | Nov. 1   | 1.93        | 1956    |             |
| Apr. 30      | 2.74        | 30       | 1.93        | Jan. 31 | 2.08        |
| June 1       | 2.37        | 1955     |             | Apr. 30 | 1.68        |
| July 1       | 2.18        | Jan. 3   | 1.82        | May 31  | 1.98        |
| 29           | 2.31        | Mar. 30  | 1.99        | June 29 | 2.30        |
| Sept. 2      | 2.08        | July 1   | 2.40        | Oct. 30 | 2.58        |
|              |             | Aug. 30  | 2.64        |         |             |

## RYE 1

|         |       |         |       |         |       |
|---------|-------|---------|-------|---------|-------|
| 1954    |       | 1955    |       | 1956    |       |
| Feb. 11 | 38.51 | Jan. 3  | 35.73 | Feb. 29 | 37.14 |
| 26      | 38.48 | Feb. 4  | 35.94 | Mar. 30 | 37.23 |
| Mar. 31 | 37.83 | Mar. 2  | 36.09 | Apr. 30 | 34.52 |
| Apr. 30 | 37.15 | 31      | 35.98 | May 31  | 35.10 |
| May 28  | 34.15 | May 2   | 36.51 | June 29 | 36.35 |
| July 1  | 35.19 | June 30 | 37.51 | Aug. 1  | 37.45 |
| 29      | 36.70 | Aug. 2  | 38.32 | Oct. 2  | 38.98 |
| Sept. 2 | 37.55 | 30      | 38.80 | 30      | 39.97 |
| 30      | 35.98 | Oct. 31 | 39.41 | Nov. 30 | 38.81 |
| Nov. 1  | 36.75 | Nov. 30 | 37.59 | Dec. 28 | 37.95 |
| 30      | 36.92 | 1956    |       | 1957    |       |
|         |       | Jan. 26 | 37.35 | Oct. 1  | 40.48 |

## SEABROOK 11

|         |      |        |       |         |       |
|---------|------|--------|-------|---------|-------|
| 1956    |      | 1956   |       | 1956    |       |
| May 9   | 7.15 | Aug. 1 | 10.32 | Oct. 30 | 11.15 |
| June 29 | 9.37 |        |       |         |       |

## STRATHAM 7

|          |       |         |       |         |       |
|----------|-------|---------|-------|---------|-------|
| 1955     |       | 1956    |       | 1956    |       |
| Sept. 13 | 15.89 | Jan. 31 | 9.41  | Aug. 1  | 15.95 |
| 29       | 16.92 | Mar. 29 | 11.60 | Oct. 2  | 17.65 |
| Oct. 31  | 15.03 | Apr. 30 | 7.24  | 30      | 15.68 |
| Nov. 30  | 10.51 | May 29  | 11.00 | Nov. 29 | 14.13 |
| Dec. 27  | 13.39 | June 29 | 13.97 |         |       |

## STRATHAM 11

|          |       |         |       |         |       |
|----------|-------|---------|-------|---------|-------|
| 1955     |       | 1955    |       | 1956    |       |
| Sept. 19 | 16.69 | Oct. 31 | 18.18 | Jan. 31 | 10.21 |
| 29       | 17.25 |         |       |         |       |

Table 5. Water-level fluctuations in selected wells in southeastern New Hampshire--Continued

(In feet below land-surface datum)

## STRAFFORD COUNTY

| Date         | Water level | Date    | Water level | Date    | Water level |
|--------------|-------------|---------|-------------|---------|-------------|
| BARRINGTON 1 |             |         |             |         |             |
| 1954         |             | 1954    |             | 1955    |             |
| Mar. 11      | 7.50        | Sept. 1 | 7.63        | July 1  | 7.59        |
| 30           | 6.88        | 29      | 6.17        | Aug. 2  | 9.43        |
| Apr. 29      | 6.38        | Nov. 1  | 7.77        | 29      | 9.03        |
| June 1       | 4.34        | 30      | 6.46        | Nov. 30 | 8.01        |
| 30           | 5.77        | 1955    |             | 1956    |             |
| July 28      | 6.94        | Jan. 4  | 5.58        | Apr. 30 | 4.59        |
|              |             | Mar. 30 | 5.82        | May 29  | 5.40        |

|          |       |          |       |         |       |
|----------|-------|----------|-------|---------|-------|
| DOVER 1  |       |          |       |         |       |
| 1953     |       | 1954     |       | 1955    |       |
| Sept. 30 | 17.06 | Sept. 29 | 10.89 | Aug. 29 | 15.41 |
| 1954     |       | Nov. 1   | 12.07 | Nov. 30 | 11.29 |
| Feb. 25  | 11.85 | 30       | 8.97  | 1956    |       |
| Mar. 30  | 9.45  | 1955     |       | Jan. 30 | 10.95 |
| June 1   | 9.72  | Jan. 4   | 7.33  | Apr. 30 | 7.88  |
| 30       | 12.30 | Mar. 3   | 10.64 | June 1  | 10.19 |
| July 28  | 13.54 | 31       | 9.90  | 29      | 12.70 |
| Sept. 1  | 14.24 | July 1   | 13.28 |         |       |

|         |       |        |       |         |             |
|---------|-------|--------|-------|---------|-------------|
| DOVER 3 |       |        |       |         |             |
| 1954    |       | 1954   |       | 1954    |             |
| Jan. 8  | 25.55 | Apr. 5 | 28.94 | July 13 | 26.35       |
| 14      | 25.88 | 12     | 29.03 | 22      | 26.54       |
| 28      | 26.44 | 20     | 29.09 | Aug. 3  | 26.68       |
| Feb. 15 | 27.62 | 26     | 28.95 | 12      | 27.05       |
| 25      | 28.14 | May 3  | 28.85 | Sept. 1 | 27.25       |
| Mar. 1  | 28.30 | 10     | 28.69 | 13      | 27.60       |
| 4       | 28.38 | 14     | 28.29 | 29      | 27.63       |
| 8       | 28.46 | 21     | 28.47 | Oct. 15 | 27.75       |
| 11      | 28.50 | 28     | 26.84 | Nov. 1  | 27.91       |
| 12      | 28.52 | June 4 | 26.40 | 10      | 27.96       |
| 16      | 28.60 | 11     | 26.15 | 29      | 27.97       |
| 22      | 28.72 | 18     | 26.04 | Dec. 16 | 27.88       |
| 29      | 28.83 | 30     | 25.57 | 1955    |             |
|         |       |        |       | Jan. 3  | Plug.at 29' |

|         |      |         |      |         |      |
|---------|------|---------|------|---------|------|
| DOVER 7 |      |         |      |         |      |
| 1954    |      | 1954    |      | 1954    |      |
| Jan. 8  | 8.98 | Feb. 25 | 8.93 | June 30 | 5.59 |
| 28      | 9.06 |         |      |         |      |

|         |      |          |      |         |      |
|---------|------|----------|------|---------|------|
| DOVER 8 |      |          |      |         |      |
| 1953    |      | 1954     |      | 1956    |      |
| Nov. 24 | 9.66 | Nov. 1   | 8.82 | Feb. 9  | 8.95 |
| 1954    |      | 30       | 8.82 | 17      | 9.03 |
| Jan. 14 | 9.83 | 1955     |      | Apr. 30 | 8.27 |
| 21      | 9.86 | Jan. 4   | 8.50 | June 1  | 8.30 |
| 28      | 9.83 | Feb. 4   | 8.75 | July 2  | 8.41 |
| Feb. 15 | 9.91 | Mar. 3   | 8.65 | Aug. 1  | 8.52 |
| 26      | 9.85 | 31       | 8.55 | 31      | 8.67 |
| Mar. 4  | 9.79 | Apr. 22  | 8.55 | Oct. 11 | 8.90 |
| 30      | 9.77 | May 2    | 8.60 | Nov. 30 | 8.95 |
| Apr. 16 | 9.80 | June 3   | 8.63 | Dec. 27 | 8.99 |
| 29      | 9.55 | July 1   | 8.67 | 1957    |      |
| May 10  | 8.90 | Aug. 2   | 8.81 | May 9   | 9.33 |
| 14      | 8.89 | 30       | 8.91 | 20      | 9.34 |
| June 1  | 8.60 | Sept. 30 | 9.04 | July 22 | 9.46 |
| 30      | 8.82 | Oct. 31  | 8.97 | Aug. 2  | 9.50 |
| July 29 | 8.85 | Nov. 30  | 8.98 | Oct. 1  | 9.54 |
| Sept. 1 | 8.99 | Dec. 29  | 9.12 | Nov. 12 | 9.60 |
| 13      | 8.64 | 1956     |      | 26      | 9.60 |
| 29      | 8.90 | Jan. 31  | 8.97 |         |      |

| Date    | Water level | Date    | Water level | Date     | Water level |
|---------|-------------|---------|-------------|----------|-------------|
| DOVER 9 |             |         |             |          |             |
| 1954    |             | 1954    |             | 1954     |             |
| Jan. 18 | 9.52        | Apr. 29 | 9.21        | Sept. 30 | 8.59        |
| 21      | 9.53        | June 1  | 8.30        | Nov. 1   | 8.60        |
| 28      | 9.51        | 30      | 8.57        | 30       | 8.48        |
| Feb. 26 | 9.52        | July 29 | 8.61        | 1955     |             |
| Mar. 30 | 9.41        | Sept. 1 | 8.70        | Mar. 31  | 8.23        |
|         |             |         |             | Aug. 30  | 8.57        |

|          |      |         |      |         |      |
|----------|------|---------|------|---------|------|
| DOVER 10 |      |         |      |         |      |
| 1954     |      | 1954    |      | 1954    |      |
| Jan. 21  | 9.79 | June 1  | 7.85 | Nov. 1  | 7.84 |
| 28       | 9.82 | 30      | 8.04 | 30      | 7.62 |
| Feb. 26  | 9.96 | July 29 | 8.02 | 1955    |      |
| Mar. 30  | 9.84 | Sept. 1 | 8.24 | Jan. 4  | 7.16 |
| Apr. 29  | 9.38 | 29      | 7.87 | Mar. 31 | 7.38 |
|          |      |         |      | Aug. 30 | 7.93 |

|          |      |          |       |         |      |
|----------|------|----------|-------|---------|------|
| DOVER 11 |      |          |       |         |      |
| 1954     |      | 1954     |       | 1956    |      |
| Jan. 21  | 1.28 | Nov. 1   | 1.22  | Apr. 30 | 1.02 |
| 28       | 1.24 | 30       | 1.41  | June 1  | 1.71 |
| Feb. 26  | 1.84 | 1955     |       | Aug. 1  | 2.08 |
| Mar. 30  | 1.82 | Jan. 4   | 1.59  | Oct. 11 | 1.31 |
| Apr. 29  | 1.54 | Mar. 31  | 1.27  | 1957    |      |
| May 14   | 0.80 | June 3   | 1.71  | May 9   | 0.39 |
| June 1   | 0.00 | July 1   | 1.69  | 20      | 0.35 |
| July 1   | 0.68 | Aug. 2   | 1.45  | July 22 | 0.27 |
| 29       | 0.88 | 30       | 1.15  | Aug. 2  | 0.27 |
| Sept. 1  | 0.65 | Sept. 30 | 0.79* | Oct. 1  | 0.53 |
| 29       | 0.96 | Nov. 30  | 0.70* | Nov. 26 | 0.95 |
|          |      | Dec. 29  | 0.70* |         |      |
| * Ice    |      |          |       |         |      |

|          |      |         |      |          |      |
|----------|------|---------|------|----------|------|
| DOVER 12 |      |         |      |          |      |
| 1954     |      | 1954    |      | 1954     |      |
| Jan. 21  | 9.12 | June 1  | 7.55 | Sept. 29 | 6.84 |
| 28       | 9.17 | 30      | 7.10 | Nov. 1   | 6.70 |
| Feb. 26  | 9.25 | July 29 | 6.96 | 30       | 6.50 |
| Apr. 29  | 8.93 | Sept. 1 | 7.16 | 1955     |      |
|          |      |         |      | Mar. 31  | 6.33 |

|          |      |         |      |         |         |
|----------|------|---------|------|---------|---------|
| DOVER 13 |      |         |      |         |         |
| 1954     |      | 1954    |      | 1954    |         |
| Jan. 21  | 1.43 | Apr. 29 | 1.71 | Nov. 1  | 2.00    |
| 28       | 1.44 | June 1  | 1.79 | 1955    |         |
| Feb. 26  | 1.65 | July 29 | 1.87 | Mar. 31 | flowing |

|          |       |         |       |         |       |
|----------|-------|---------|-------|---------|-------|
| DOVER 14 |       |         |       |         |       |
| 1954     |       | 1954    |       | 1954    |       |
| Jan. 22  | 17.65 | June 30 | 16.48 | Nov. 30 | 16.49 |
| 28       | 17.58 | July 29 | 16.56 | 1955    |       |
| Feb. 15  | 17.69 | Sept. 1 | 16.67 | Jan. 4  | 16.19 |
| 26       | 17.62 | 29      | 16.60 | Mar. 31 | 16.21 |
| Mar. 30  | 17.54 | Nov. 1  | 16.62 | July 1  | 16.38 |
| Apr. 29  | 17.32 |         |       | Aug. 30 | 16.64 |

|          |       |          |       |         |       |
|----------|-------|----------|-------|---------|-------|
| DOVER 15 |       |          |       |         |       |
| 1954     |       | 1954     |       | 1954    |       |
| June 30  | 12.93 | Sept. 13 | 12.75 | Nov. 30 | 12.94 |
| July 29  | 13.04 | 29       | 13.03 | 1955    |       |
| Sept. 1  | 13.11 | Nov. 1   | 13.06 | Mar. 30 | 12.67 |
|          |       |          |       | Aug. 30 | 13.10 |

Table 5. Water-level fluctuations in selected wells in southeastern New Hampshire--Continued

(In feet below land-surface datum)

## STRAFFORD COUNTY (Continued)

| Date     | Water level | Date     | Water level | Date    | Water level |
|----------|-------------|----------|-------------|---------|-------------|
| DOVER 16 |             |          |             |         |             |
| 1954     |             | 1955     |             | 1956    |             |
| Mar. 31  | 0.93        | Apr. 20  | *14.33 1/   | Jan. 31 | 11.16       |
| Apr. 30  | 0.51        | May 2    | *13.54      | Feb. 29 | 11.35       |
| June 1   | 1.25        | June 3   | 11.92       | Mar. 30 | 11.37       |
| Sept. 2  | 3.36        | July 1   | 11.18       | Apr. 30 | 10.08       |
| 30       | 1.92        | Aug. 2   | 11.20       | May 31  | 10.08       |
| Nov. 1   | 1.55        | 30       | 11.07       | June 29 | 10.34       |
| 30       | 0.78        | Sept. 30 | 11.44       | Aug. 1  | 10.66       |
| 1955     |             | Oct. 31  | 11.34       | 31      | 11.05       |
| Jan. 3   | 10.29       | Nov. 30  | 10.92       | Oct. 30 | 11.61       |
| Feb. 4   | 10.23       | 1956     |             | Dec. 28 | 11.58       |
| Mar. 30  | 11.21       | Jan. 4   | 11.36       |         |             |

\*Affected by pumping

1/ Land surface elevated 9.2 feet by construction.

|          |      |          |      |         |      |
|----------|------|----------|------|---------|------|
| DOVER 17 |      |          |      |         |      |
| 1954     |      | 1954     |      | 1955    |      |
| Jan. 28  | 6.67 | June 30  | 2.22 | Mar. 31 | 3.13 |
| Feb. 25  | 6.73 | July 28  | 4.14 | July 1  | 4.26 |
| Mar. 11  | 6.25 | Sept. 23 | 3.89 | Aug. 29 | 5.60 |
| 30       | 5.76 | Nov. 1   | 4.50 | Nov. 30 | 5.95 |
| Apr. 29  | 4.90 | 30       | 4.38 | 1956    |      |
| June 1   | 1.73 | Jan. 4   | 3.40 | Apr. 30 | 3.41 |

|          |       |          |       |         |       |
|----------|-------|----------|-------|---------|-------|
| DOVER 21 |       |          |       |         |       |
| 1954     |       | 1954     |       | 1955    |       |
| Apr. 9   | 6.79  | Sept. 29 | 7.89  | Aug. 30 | 12.72 |
| 29       | 5.71  | Nov. 1   | 9.91  | Nov. 30 | 6.87  |
| June 1   | 6.22  | 30       | 4.91  | 1956    |       |
| 30       | 9.83  | Jan. 4   | 4.04  | Apr. 30 | 2.94  |
| July 29  | 11.79 | Mar. 31  | 7.10  | Aug. 1  | 12.40 |
| Sept. 1  | 13.37 | July 1   | 10.14 | Oct. 30 | 15.05 |

|          |       |         |      |         |       |
|----------|-------|---------|------|---------|-------|
| DOVER 22 |       |         |      |         |       |
| 1954     |       | 1954    |      | 1956    |       |
| Apr. 12  | 10.94 | Nov. 1  | 8.74 | Mar. 30 | 9.32  |
| 14       | 10.96 | 30      | 8.17 | Apr. 30 | 7.64  |
| 19       | 10.70 | 1955    |      | June 1  | 7.69  |
| 29       | 10.58 | Jan. 4  | 7.67 | July 2  | 7.81  |
| May 10   | 9.24  | Mar. 31 | 7.71 | Aug. 1  | 8.11  |
| 14       | 9.54  | July 1  | 8.31 | Oct. 26 | 9.19  |
| June 1   | 8.69  | Aug. 30 | 9.06 | Nov. 30 | 9.31  |
| 30       | 8.56  | Nov. 30 | 9.18 | Dec. 27 | 9.37  |
| July 29  | 8.77  | 1956    |      | 1957    |       |
| Sept. 1  | 9.08  | Jan. 3  | 9.39 | May 9   | 9.98  |
| 13       | 8.76  | 31      | 9.38 | 20      | 10.47 |
| 29       | 8.69  | Feb. 29 | 9.38 |         |       |

|          |       |       |       |        |       |
|----------|-------|-------|-------|--------|-------|
| DOVER 23 |       |       |       |        |       |
| 1954     |       | 1954  |       | 1954   |       |
| Apr. 20  | 21.92 | May 6 | 22.05 | May 20 | 21.34 |
| 21       | 21.90 | 7     | 22.02 | 21     | 21.38 |
| 22       | 21.92 | 8     | 22.00 | 22     | 21.36 |
| 23       | 21.98 | 9     | 21.98 | 23     | 21.33 |
| 26       | 22.07 | 10    | 21.18 | 24     | 21.29 |
| 27       | 22.08 | 11    | 20.54 | 25     | 21.33 |
| 28       | 22.11 | 12    | 20.93 | 26     | 21.40 |
| 29       | 22.12 | 13    | 21.13 | 27     | 21.42 |
| 30       | 22.14 | 14    | 21.22 | 28     | 21.43 |
| May 1    | 22.17 | 15    | 21.37 | 29     | 21.50 |
| 2        | 22.17 | 16    | 21.37 | 30     | 21.54 |
| 3        | 22.20 | 17    | 21.04 | 31     | 21.55 |
| 4        | 22.19 | 18    | 21.17 | June 1 | 21.57 |
| 5        | 22.15 | 19    | 21.28 | 2      | 21.60 |

|                      |       |         |       |         |       |
|----------------------|-------|---------|-------|---------|-------|
| DOVER 23 (Continued) |       |         |       |         |       |
| 1954                 |       | 1954    |       | 1954    |       |
| June 3               | 21.64 | Aug. 13 | 22.57 | Oct. 21 | 21.99 |
| 4                    | 21.67 | 14      | 22.58 | 22      | 22.03 |
| 5                    | 21.68 | 15      | 22.57 | 23      | 22.03 |
| 6                    | 21.70 | 16      | 22.55 | 24      | 22.07 |
| 7                    | 21.72 | 17      | 22.58 | 25      | 22.08 |
| 8                    | 21.75 | 18      | 22.63 | 26      | 22.08 |
| 9                    | 21.76 | 19      | 22.63 | 27      | 22.07 |
| 10                   | 21.77 | 20      | 22.67 | 28      | 22.15 |
| 11                   | 21.79 | 21      | 22.72 | 29      | 22.14 |
| 12                   | 21.81 | 22      | 22.74 | 30      | 22.13 |
| 13                   | 21.83 | 23      | 22.79 | 31      | 22.22 |
| 14                   | 21.83 | 24      | 22.78 | Nov. 1  | 22.24 |
| 15                   | 21.86 | 25      | 22.73 | 2       | 22.26 |
| 16                   | 21.87 | 26      | 22.80 | 3       | 22.21 |
| 17                   | 21.88 | 27      | 22.85 | 4       | 21.96 |
| 18                   | 21.88 | 28      | 22.86 | 5       | 21.83 |
| 19                   | 21.86 | 29      | 22.88 | 6       | 21.74 |
| 20                   | 21.87 | 30      | 22.87 | 7       | 21.76 |
| 21                   | 21.88 | 31      | 22.87 | 8       | 21.78 |
| 22                   | 21.90 | Sept. 1 | 22.70 | 9       | 21.82 |
| 23                   | 21.91 | 2       | 22.55 | 10      | 21.85 |
| 24                   | 21.93 | 3       | 22.34 | 11      | 21.82 |
| 25                   | 21.93 | 4       | 22.35 | 12      | 21.90 |
| 26                   | 21.95 | 5       | 22.35 | 13      | 21.92 |
| 27                   | 21.99 | 6       | 22.40 | 14      | 21.88 |
| 28                   | 22.00 | 7       | 22.41 | 15      | 21.97 |
| 29                   | 22.00 | 8       | 22.46 | 16      | 21.95 |
| 30                   | 22.02 | 9       | 22.52 | 17      | 21.99 |
| July 1               | 22.02 | 10      | 22.52 | 18      | 22.00 |
| 2                    | 22.03 | 11      | 22.52 | 19      | 21.96 |
| 3                    | 22.05 | 12      | 21.79 | 20      | 21.93 |
| 4                    | 22.06 | 13      | 21.12 | 21      | 21.91 |
| 5                    | 22.05 | 14      | 21.29 | 22      | 21.93 |
| 6                    | 22.08 | 15      | 21.39 | 23      | 21.87 |
| 7                    | 22.08 | 16      | 21.46 | 24      | 21.81 |
| 8                    | 22.12 | 17      | 21.47 | 25      | 21.82 |
| 9                    | 22.14 | 18      | 21.52 | 26      | 21.83 |
| 10                   | 22.16 | 19      | 21.53 | 27      | 21.81 |
| 11                   | 22.15 | 20      | 21.55 | 28      | 21.78 |
| 12                   | 22.17 | 21      | 21.58 | 29      | 21.78 |
| 13                   | 22.15 | 22      | 21.62 | 30      | 21.81 |
| 14                   | 22.19 | 23      | 21.65 | Dec. 1  | 21.77 |
| 15                   | 22.24 | 24      | 21.65 | 2       | 21.68 |
| 16                   | 22.28 | 25      | 21.65 | 3       | 21.65 |
| 19                   | 22.22 | 26      | 21.64 | 4       | 21.66 |
| 20                   | 22.25 | 27      | 21.69 | 5       | 21.71 |
| 21                   | 22.26 | 28      | 21.73 | 6       | 21.72 |
| 22                   | 22.29 | 29      | 21.76 | 7       | 21.72 |
| 23                   | 22.31 | 30      | 21.74 | 8       | 21.74 |
| 24                   | 22.36 | Oct. 1  | 21.77 | 9       | 21.74 |
| 25                   | 22.37 | 2       | 21.78 | 10      | 21.78 |
| 26                   | 22.37 | 3       | 21.82 | 11      | 21.84 |
| 27                   | 22.38 | 4       | 21.77 | 12      | 21.85 |
| 28                   | 22.40 | 5       | 21.83 | 13      | 21.87 |
| 29                   | 22.42 | 6       | 21.83 | 14      | 21.86 |
| 30                   | 22.43 | 7       | 21.90 | 15      | 21.65 |
| 31                   | 22.44 | 8       | 21.89 | 16      | 21.40 |
| Aug. 1               | 22.45 | 9       | 21.84 | 17      | 21.41 |
| 2                    | 22.49 | 10      | 21.87 | 18      | 21.35 |
| 3                    | 22.50 | 11      | 21.87 | 19      | 21.34 |
| 4                    | 22.50 | 12      | 21.91 | 20      | 21.33 |
| 5                    | 22.50 | 13      | 21.95 | 21      | 21.33 |
| 6                    | 22.55 | 14      | 21.96 | 22      | 21.42 |
| 7                    | 22.58 | 15      | 21.93 | 23      | 21.43 |
| 8                    | 22.61 | 16      | 21.94 | 24      | 21.53 |
| 9                    | 22.62 | 17      | 21.98 | 25      | 21.57 |
| 10                   | 22.61 | 18      | 21.99 | 26      | 21.57 |
| 11                   | 22.57 | 19      | 21.98 | 27      | 21.54 |
| 12                   | 22.58 | 20      | 21.97 | 28      | 21.54 |

Table 5. Water-level fluctuations in selected wells in southeastern New Hampshire--Continued

(In feet below land-surface datum)

## STRAFFORD COUNTY (Continued)

| Date                 | Water level | Date   | Water level | Date   | Water level | Date                 | Water level | Date   | Water level |
|----------------------|-------------|--------|-------------|--------|-------------|----------------------|-------------|--------|-------------|
| DOVER 23 (Continued) |             |        |             |        |             | DOVER 23 (Continued) |             |        |             |
| 1954                 |             | 1955   |             | 1955   |             | 1955                 |             | 1955   |             |
| Dec. 29              | 21.61       | Mar. 8 | 22.10       | May 17 | 22.00       | July 28              | 22.95       | Oct. 6 | 23.32       |
| 30                   | 21.58       | 9      | 22.10       | 18     | 21.99       | 29                   | 22.97       | 7      | 23.32       |
| 31                   | 21.50       | 10     | 22.11       | 19     | 22.03       | 30                   | 22.98       | 8      | 23.24       |
| 1955                 |             | 11     | 22.09       | 20     | 22.09       | 31                   | 22.98       | 9      | 23.21       |
| Jan. 1               | 21.44       | 12     | 22.08       | 21     | 22.12       | Aug. 1               | 22.96       | 10     | 23.12       |
| 2                    | 21.38       | 13     | 22.10       | 22     | 22.14       | 2                    | 22.98       | 11     | 23.02       |
| 3                    | 21.38       | 14     | 22.14       | 23     | 22.12       | 3                    | 23.01       | 12     | 22.99       |
| 4                    | 21.32       | 15     | 22.13       | 24     | 22.10       | 4                    | 23.02       | 13     | 22.98       |
| 5                    | 21.31       | 16     | 22.03       | 25     | 22.13       | 5                    | 23.02       | 14     | 22.97       |
| 6                    | 21.26       | 17     | 22.08       | 26     | 22.23       | 6                    | 23.05       | 15     | 22.96       |
| 7                    | 21.32       | 18     | 22.08       | 27     | 22.25       | 7                    | 23.05       | 16     | 22.95       |
| 8                    | 21.33       | 19     | 22.10       | 28     | 22.24       | 8                    | 23.08       | 17     | 22.94       |
| 9                    | 21.32       | 20     | 22.12       | 29     | 22.17       | 9                    | 23.10       | 18     | 22.91       |
| 10                   | 21.39       | 21     | 22.08       | 30     | 22.22       | 10                   | 23.10       | 19     | 22.89       |
| 11                   | 21.40       | 22     | 22.06       | 31     | 22.24       | 11                   | 23.09       | 20     | 22.80       |
| 12                   | 21.40       | 23     | 21.98       | June 1 | 22.27       | 12                   | 23.11       | 21     | 22.72       |
| 13                   | 21.39       | 24     | 22.00       | 2      | 22.29       | 13                   | 23.11       | 22     | 22.64       |
| 14                   | 21.46       | 25     | 21.98       | 3      | 22.29       | 14                   | 23.10       | 23     | 22.63       |
| 15                   | 21.47       | 26     | 21.98       | 4      | 22.27       | 15                   | 23.10       | 24     | 22.57       |
| 16                   | 21.50       | 27     | 21.83       | 5      | 22.28       | 16                   | 23.05       | 25     | 22.57       |
| 17                   | 21.53       | 28     | 21.88       | 6      | 22.31       | 17                   | 23.08       | 26     | 22.57       |
| 18                   | 21.56       | 29     | 21.89       | 7      | 22.31       | 18                   | 23.06       | 27     | 22.62       |
| 19                   | 21.56       | 30     | 21.89       | 8      | 22.30       | 19                   | 23.02       | 28     | 22.64       |
| 20                   | 21.60       | 31     | 21.88       | 9      | 22.31       | 20                   | 22.96       | 29     | 22.65       |
| 21                   | 21.62       | Apr. 1 | 21.84       | 10     | 22.33       | 21                   | 22.96       | 30     | 22.67       |
| 22                   | 21.57       | 2      | 21.84       | 11     | 22.34       | 22                   | 22.93       | 31     | 22.67       |
| 23                   | 21.61       | 3      | 21.85       | 12     | 22.34       | 23                   | 22.87       | Nov. 1 | 22.51       |
| 24                   | 21.63       | 4      | 21.85       | 13     | 22.31       | 24                   | 22.79       | 2      | 22.25       |
| 25                   | 21.64       | 5      | 21.86       | 14     | 22.33       | 25                   | 22.76       | 3      | 22.00       |
| 26                   | 21.66       | 6      | 21.83       | 15     | 22.34       | 26                   | 22.62       | 4      | 21.88       |
| 27                   | 21.67       | 7      | 21.77       | 16     | 22.33       | 27                   | 22.47       | 5      | 21.81       |
| 28                   | 21.71       | 8      | 21.84       | 17     | 22.36       | 28                   | 22.43       | 6      | 21.78       |
| 29                   | 21.71       | 9      | 21.87       | 18     | 22.35       | 29                   | 22.44       | 7      | 21.75       |
| 30                   | 21.72       | 10     | 21.82       | 19     | 22.33       | 30                   | 22.46       | 8      | 21.73       |
| 31                   | 21.75       | 11     | 21.89       | 20     | 22.32       | 31                   | 22.52       | 9      | 21.75       |
| Feb. 1               | 21.74       | 12     | 21.93       | 21     | 22.37       | Sept. 1              | 22.57       | 10     | 21.78       |
| 2                    | 21.76       | 13     | 21.92       | 22     | 22.38       | 2                    | 22.60       | 11     | 21.82       |
| 3                    | 21.77       | 14     | 21.90       | 23     | 22.41       | 3                    | 22.63       | 12     | 21.82       |
| 4                    | 21.87       | 15     | 21.82       | 24     | 22.43       | 4                    | 22.65       | 13     | 21.82       |
| 5                    | 21.87       | 16     | 21.96       | 27     | 22.49       | 5                    | 22.69       | 14     | 21.77       |
| 6                    | 21.83       | 17     | 21.96       | 28     | 22.50       | 6                    | 22.72       | 15     | 21.74       |
| 7                    | 21.84       | 18     | 21.94       | 29     | 22.50       | 7                    | 22.77       | 21     | 21.69       |
| 8                    | 21.87       | 19     | 21.93       | 30     | 22.51       | 8                    | 22.83       | 22     | 21.73       |
| 9                    | 21.90       | 20     | 21.97       | July 1 | 22.52       | 9                    | 22.86       | 23     | 21.73       |
| 10                   | 21.88       | 21     | 21.96       | 2      | 22.56       | 10                   | 22.88       | 24     | 21.78       |
| 11                   | 21.86       | 22     | 21.93       | 3      | 22.57       | 11                   | 22.89       | 25     | 21.79       |
| 12                   | 21.96       | 23     | 21.97       | 4      | 22.59       | 12                   | 22.94       | 26     | 21.78       |
| 13                   | 22.01       | 24     | 22.00       | 5      | 22.57       | 13                   | 23.00       | 27     | 21.82       |
| 14                   | 22.01       | 25     | 21.99       | 6      | 22.62       | 14                   | 23.01       | 28     | 21.82       |
| 15                   | 21.94       | 26     | 21.98       | 7      | 22.63       | 15                   | 23.00       | 29     | 21.88       |
| 16                   | 22.02       | 27     | 21.98       | 8      | 22.64       | 16                   | 23.07       | 30     | 21.94       |
| 17                   | 22.02       | 28     | 21.98       | 9      | 22.65       | 17                   | 23.09       | Dec. 1 | 21.97       |
| 18                   | 22.02       | 29     | 21.93       | 10     | 22.66       | 18                   | 23.10       | 2      | 21.95       |
| 19                   | 22.05       | 30     | 21.92       | 11     | 22.69       | 19                   | 23.11       | 3      | 21.96       |
| 20                   | 22.07       | May 1  | 21.90       | 12     | 22.72       | 20                   | 23.13       | 4      | 21.97       |
| 21                   | 22.07       | 2      | 21.90       | 13     | 22.73       | 21                   | 23.19       | 5      | 21.97       |
| 22                   | 22.04       | 3      | 21.88       | 14     | 22.72       | 22                   | 23.23       | 6      | 22.02       |
| 23                   | 22.07       | 4      | 21.84       | 15     | 22.74       | 23                   | 23.25       | 7      | 22.02       |
| 24                   | 22.03       | 5      | 21.81       | 16     | 22.75       | 24                   | 23.25       | 8      | 22.02       |
| 25                   | 22.05       | 6      | 21.81       | 17     | 22.77       | 25                   | 23.23       | 9      | 22.03       |
| 26                   | 22.07       | 7      | 21.85       | 18     | 22.79       | 26                   | 23.23       | 10     | 22.08       |
| 27                   | 22.03       | 8      | 21.85       | 19     | 22.83       | 27                   | 23.20       | 11     | 22.10       |
| 28                   | 22.02       | 9      | 21.92       | 20     | 22.84       | 28                   | 23.15       | 12     | 22.13       |
| Mar. 1               | 22.02       | 10     | 21.92       | 21     | 22.83       | 29                   | 23.18       | 13     | 22.16       |
| 2                    | 22.01       | 11     | 21.92       | 22     | 22.86       | 30                   | 23.19       | 14     | 22.17       |
| 3                    | 22.10       | 12     | 21.94       | 23     | 22.85       | Oct. 1               | 23.23       | 15     | 22.13       |
| 4                    | 22.10       | 13     | 21.94       | 24     | 22.88       | 2                    | 23.25       | 16     | 22.18       |
| 5                    | 22.04       | 14     | 21.98       | 25     | 22.91       | 3                    | 23.27       | 17     | 22.21       |
| 6                    | 22.03       | 15     | 21.99       | 26     | 22.92       | 4                    | 23.28       | 18     | 22.22       |
| 7                    | 22.05       | 16     | 21.98       | 27     | 22.93       | 5                    | 23.30       | 19     | 22.25       |
|                      |             |        |             |        |             |                      |             | 20     | 22.43       |
|                      |             |        |             |        |             |                      |             | 21     | 22.44       |
|                      |             |        |             |        |             |                      |             | 22     | 22.46       |
|                      |             |        |             |        |             |                      |             | 23     | 22.52       |
|                      |             |        |             |        |             |                      |             | 24     | 22.55       |
|                      |             |        |             |        |             |                      |             | 25     | 22.51       |
|                      |             |        |             |        |             |                      |             | 26     | 22.51       |

Table 5. Water-level fluctuations in selected wells in southeastern New Hampshire--Continued

(In feet below land-surface datum)

## STRAFFORD COUNTY (Continued)

| Date                 | Water level | Date   | Water level | Date    | Water level | Date                 | Water level | Date   | Water level |
|----------------------|-------------|--------|-------------|---------|-------------|----------------------|-------------|--------|-------------|
| DOVER 23 (Continued) |             |        |             |         |             | DOVER 23 (Continued) |             |        |             |
| 1956                 |             | 1956   |             | 1956    |             | 1956                 |             | 1956   |             |
| Feb. 27              | 22.53       | May 8  | 21.54       | July 18 | 22.33       | Sept. 27             | 23.32       | Dec. 7 | 22.29       |
| 28                   | 22.54       | 9      | 21.55       | 19      | 22.34       | 28                   | 23.29       | 8      | 22.34       |
| 29                   | 22.60       | 10     | 21.60       | 20      | 22.35       | 29                   | 23.25       | 9      | 22.34       |
| Mar. 1               | 22.64       | 11     | 21.62       | 21      | 22.36       | 30                   | 23.23       | 10     | 22.38       |
| 2                    | 22.62       | 12     | 21.55       | 22      | 22.35       | Oct. 1               | 23.20       | 11     | 22.39       |
| 3                    | 22.59       | 13     | 21.61       | 23      | 22.36       | 2                    | 23.21       | 12     | 22.37       |
| 4                    | 22.57       | 14     | 21.63       | 24      | 22.35       | 3                    | 23.23       | 13     | 22.39       |
| 5                    | 22.54       | 15     | 21.63       | 25      | 22.38       | 4                    | 23.25       | 14     | 22.35       |
| 6                    | 22.60       | 16     | 21.62       | 26      | 22.43       | 5                    | 23.28       | 15     | 22.27       |
| 7                    | 22.64       | 17     | 21.68       | 27      | 22.44       | 6                    | 23.30       | 16     | 22.18       |
| 8                    | 22.63       | 18     | 21.66       | 28      | 22.42       | 7                    | 23.28       | 17     | 22.12       |
| 9                    | 22.72       | 19     | 21.67       | 29      | 22.47       | 8                    | 23.28       | 18     | 22.12       |
| 10                   | 22.75       | 20     | 21.69       | 30      | 22.49       | 9                    | 23.32       | 19     | 22.12       |
| 11                   | 22.75       | 21     | 21.69       | 31      | 22.51       | 10                   | 23.35       | 20     | 22.05       |
| 12                   | 22.73       | 22     | 21.68       | Aug. 1  | 22.52       | 11                   | 23.36       | 21     | 22.04       |
| 13                   | 22.75       | 23     | 21.73       | 2       | 22.55       | 12                   | 23.36       | 22     | 22.10       |
| 14                   | 22.75       | 24     | 21.76       | 3       | 22.57       | 13                   | 23.35       | 23     | 22.10       |
| 15                   | 22.79       | 25     | 21.77       | 4       | 22.57       | 14                   | 23.33       | 24     | 22.07       |
| 16                   | 22.80       | 26     | 21.74       | 5       | 22.59       | 15                   | 23.35       | 25     | 22.09       |
| 17                   | 22.77       | 27     | 21.72       | 6       | 22.61       | 16                   | 23.36       | 26     | 22.12       |
| 18                   | 22.82       | 28     | 21.76       | 7       | 22.63       | 17                   | 23.37       | 27     | 22.11       |
| 19                   | 22.82       | 29     | 21.76       | 8       | 22.64       | 18                   | 23.38       | 28     | 22.08       |
| 20                   | 22.84       | 30     | 21.70       | 9       | 22.66       | 19                   | 23.42       | 29     | 22.08       |
| 21                   | 22.85       | 31     | 21.72       | 10      | 22.66       | 20                   | 23.43       | 30     | 22.16       |
| 22                   | 22.83       | June 1 | 21.74       | 11      | 22.70       | 21                   | 23.42       | 31     | 22.17       |
| 23                   | 22.85       | 2      | 21.77       | 12      | 22.72       | 22                   | 23.44       | 1957   |             |
| 24                   | 22.85       | 3      | 21.77       | 13      | 22.74       | 23                   | 23.45       | Jan. 1 | 22.20       |
| 25                   | 22.86       | 4      | 21.76       | 14      | 22.72       | 24                   | 23.43       | 2      | 22.20       |
| 26                   | 22.87       | 5      | 21.74       | 15      | 22.75       | 25                   | 23.44       | 3      | 22.22       |
| 27                   | 22.91       | 6      | 21.75       | 16      | 22.77       | 26                   | 23.42       | 4      | 22.22       |
| 28                   | 22.92       | 7      | 21.75       | 17      | 22.77       | 27                   | 23.33       | 5      | 22.26       |
| 29                   | 22.92       | 8      | 21.81       | 18      | 22.78       | 28                   | 23.24       | 6      | 22.28       |
| 30                   | 22.89       | 9      | 21.81       | 19      | 22.81       | 29                   | 23.20       | 7      | 22.26       |
| 31                   | 22.93       | 10     | 21.79       | 20      | 22.83       | 30                   | 23.17       | 8      | 22.30       |
| Apr. 1               | 22.95       | 11     | 21.82       | 21      | 22.85       | 31                   | 23.13       | 9      | 22.32       |
| 2                    | 22.93       | 12     | 21.82       | 22      | 22.87       | Nov. 1               | 23.11       | 10     | 22.36       |
| 3                    | 22.83       | 13     | 21.83       | 23      | 22.88       | 2                    | 23.12       | 11     | 22.40       |
| 4                    | 22.68       | 14     | 21.84       | 24      | 22.87       | 3                    | 23.13       | 12     | 22.40       |
| 5                    | 22.49       | 15     | 21.84       | 25      | 22.90       | 4                    | 23.13       | 13     | 22.41       |
| 6                    | 22.31       | 16     | 21.85       | 26      | 22.91       | 5                    | 23.15       | 14     | 22.46       |
| 7                    | 22.13       | 17     | 21.86       | 27      | 22.92       | 6                    | 23.17       | 15     | 22.49       |
| 8                    | 22.03       | 18     | 21.87       | 28      | 22.94       | 7                    | 23.20       | 16     | 22.49       |
| 9                    | 22.07       | 19     | 21.87       | 29      | 22.98       | 8                    | 23.21       | 17     | 22.53       |
| 10                   | 22.09       | 20     | 21.87       | 30      | 23.01       | 9                    | 23.23       | 18     | 22.57       |
| 11                   | 22.05       | 21     | 21.87       | 31      | 23.02       | 10                   | 23.28       | 19     | 22.63       |
| 12                   | 21.97       | 22     | 21.88       | Sept. 1 | 23.02       | 11                   | 23.31       | 20     | 22.65       |
| 13                   | 21.89       | 23     | 21.92       | 2       | 23.03       | 12                   | 23.30       | 21     | 22.61       |
| 14                   | 21.77       | 24     | 21.92       | 3       | 23.05       | 13                   | 23.35       | 22     | 22.62       |
| 15                   | 21.68       | 25     | 21.96       | 4       | 23.06       | 14                   | 23.37       | 23     | 22.51       |
| 16                   | 21.62       | 26     | 21.97       | 5       | 23.08       | 15                   | 23.36       | 24     | 22.00       |
| 17                   | 21.53       | 27     | 21.95       | 6       | 23.09       | 16                   | 23.35       | 25     | 21.60       |
| 18                   | 21.57       | 28     | 21.98       | 7       | 23.10       | 17                   | 23.34       | 26     | 21.71       |
| 19                   | 21.63       | 29     | 22.01       | 8       | 23.13       | 18                   | 23.33       | 27     | 21.71       |
| 20                   | 21.65       | 30     | 22.02       | 9       | 23.14       | 19                   | 23.32       | 28     | 21.77       |
| 21                   | 21.65       | July 1 | 22.01       | 10      | 23.15       | 20                   | 23.32       | 29     | 21.89       |
| 22                   | 21.67       | 2      | 22.07       | 11      | 23.14       | 21                   | 23.30       | 30     | 22.00       |
| 23                   | 21.67       | 3      | 22.09       | 12      | 23.16       | 22                   | 23.23       | 31     | 22.00       |
| 24                   | 21.67       | 4      | 22.12       | 13      | 23.17       | 23                   | 23.24       | Feb. 1 | 22.05       |
| 25                   | 21.66       | 5      | 22.13       | 14      | 23.17       | 24                   | 23.25       | 2      | 22.10       |
| 26                   | 21.63       | 6      | 22.12       | 15      | 23.21       | 25                   | 23.24       | 3      | 22.12       |
| 27                   | 21.63       | 7      | 22.14       | 16      | 23.21       | 26                   | 23.19       | 4      | 22.18       |
| 28                   | 21.60       | 8      | 22.14       | 17      | 23.22       | 27                   | 22.99       | 5      | 22.24       |
| 29                   | 21.60       | 9      | 22.14       | 18      | 23.24       | 28                   | 22.91       | 6      | 22.25       |
| 30                   | 21.54       | 10     | 22.16       | 19      | 23.25       | 29                   | 22.67       | 7      | 22.25       |
| May 1                | 21.53       | 11     | 22.18       | 20      | 23.26       | 30                   | 22.42       | 8      | 22.29       |
| 2                    | 21.48       | 12     | 22.21       | 21      | 23.28       | Dec. 1               | 22.25       | 9      | 22.29       |
| 3                    | 21.45       | 13     | 22.22       | 22      | 23.28       | 2                    | 22.18       | 10     | 22.19       |
| 4                    | 21.42       | 14     | 22.22       | 23      | 23.30       | 3                    | 22.17       | 11     | 22.23       |
| 5                    | 21.49       | 15     | 22.25       | 24      | 23.30       | 4                    | 22.25       | 12     | 22.26       |
| 6                    | 21.45       | 16     | 22.26       | 25      | 23.28       | 5                    | 22.27       | 13     | 22.27       |
| 7                    | 21.49       | 17     | 22.29       | 26      | 23.31       | 6                    | 22.26       | 14     | 22.29       |
|                      |             |        |             |         |             |                      |             | 15     | 22.27       |
|                      |             |        |             |         |             |                      |             | 16     | 22.27       |
|                      |             |        |             |         |             |                      |             | 17     | 22.29       |
|                      |             |        |             |         |             |                      |             | 18     | 22.29       |
|                      |             |        |             |         |             |                      |             | 19     | 22.29       |
|                      |             |        |             |         |             |                      |             | 20     | 22.29       |
|                      |             |        |             |         |             |                      |             | 21     | 22.29       |
|                      |             |        |             |         |             |                      |             | 22     | 22.29       |
|                      |             |        |             |         |             |                      |             | 23     | 22.29       |
|                      |             |        |             |         |             |                      |             | 24     | 22.29       |
|                      |             |        |             |         |             |                      |             | 25     | 22.29       |
|                      |             |        |             |         |             |                      |             | 26     | 22.29       |
|                      |             |        |             |         |             |                      |             | 27     | 22.29       |
|                      |             |        |             |         |             |                      |             | 28     | 22.29       |
|                      |             |        |             |         |             |                      |             | 29     | 22.29       |

(In feet below land-surface datum)

| Date                 | Water level | Date    | Water level | Date     | Water level |
|----------------------|-------------|---------|-------------|----------|-------------|
| DOVER 23 (Continued) |             |         |             |          |             |
| 1957                 |             | 1957    |             | 1957     |             |
| Apr. 30              | 22.69       | July 11 | 24.37       | Sept. 28 | 25.72       |
| May 1                | 22.71       | 12      | 24.39       | 29       | 25.73       |
| 2                    | 22.73       | 13      | 24.40       | 30       | 25.66       |
| 3                    | 22.76       | 14      | 24.42       | Oct. 1   | 25.67       |
| 4                    | 22.80       | 15      | 24.44       | 2        | 25.69       |
| 5                    | 22.83       | 16      | 24.46       | 3        | 25.72       |
| 6                    | 22.86       | 22      | 24.55       | 4        | 25.75       |
| 7                    | 22.88       | 23      | 24.57       | 5        | 25.77       |
| 8                    | 22.92       | 24      | 24.59       | 6        | 25.78       |
| 9                    | 22.94       | 25      | 24.61       | 7        | 25.77       |
| 10                   | 22.97       | 26      | 24.63       | 8        | 25.77       |
| 11                   | 23.01       | 27      | 24.64       | 9        | 25.78       |
| 12                   | 23.03       | 28      | 24.65       | 10       | 25.80       |
| 13                   | 23.06       | 29      | 24.66       | 11       | 25.82       |
| 14                   | 23.07       | 30      | 24.67       | 12       | 25.84       |
| 15                   | 23.07       | 31      | 24.68       | 13       | 25.86       |
| 16                   | 23.12       | Aug. 1  | 24.70       | 14       | 25.87       |
| 17                   | 23.15       | 2       | 24.72       | 15       | 25.88       |
| 18                   | 23.16       | 3       | 24.72       | 16       | 25.89       |
| 19                   | 23.19       | 4       | 24.73       | 17       | 25.90       |
| 20                   | 23.21       | 5       | 24.76       | 18       | 25.91       |
| 21                   | 23.22       | 6       | 24.78       | 19       | 25.92       |
| 22                   | 23.23       | 7       | 24.80       | 20       | 25.93       |
| 23                   | 23.24       | 8       | 24.81       | 21       | 25.96       |
| 24                   | 23.26       | 9       | 24.82       | 22       | 25.97       |
| 25                   | 23.28       | 12      | 24.89       | 23       | 25.98       |
| 26                   | 23.29       | 13      | 24.90       | 24       | 25.98       |
| 27                   | 23.31       | 14      | 24.91       | 25       | 26.00       |
| 28                   | 23.35       | 15      | 24.92       | 26       | 26.02       |
| 29                   | 23.38       | 16      | 24.94       | 27       | 26.03       |
| 30                   | 23.39       | 17      | 24.95       | 28       | 26.03       |
| 31                   | 23.41       | 18      | 24.97       | 29       | 26.04       |
| June 1               | 23.44       | 19      | 24.98       | 30       | 26.05       |
| 2                    | 23.45       | 20      | 24.99       | 31       | 26.05       |
| 3                    | 23.49       | 21      | 25.01       | Nov. 1   | 26.06       |
| 4                    | 23.50       | 22      | 25.03       | 2        | 26.06       |
| 5                    | 23.54       | 23      | 25.03       | 3        | 26.00       |
| 6                    | 23.56       | 24      | 25.04       | 4        | 25.97       |
| 7                    | 23.59       | 25      | 25.05       | 5        | 26.01       |
| 8                    | 23.64       | 26      | 25.07       | 6        | 26.02       |
| 9                    | 23.67       | 27      | 25.11       | 7        | 26.03       |
| 10                   | 23.68       | 28      | 25.13       | 8        | 26.03       |
| 11                   | 23.69       | 29      | 25.14       | 9        | 26.01       |
| 12                   | 23.72       | 30      | 25.15       | 10       | 25.99       |
| 13                   | 23.75       | 31      | 25.16       | 11       | 25.98       |
| 14                   | 23.78       | Sept. 1 | 25.17       | 12       | 25.97       |
| 15                   | 23.82       | 2       | 25.19       | 13       | 25.95       |
| 16                   | 23.84       | 3       | 25.21       | 14       | 24.93       |
| 17                   | 23.87       | 4       | 25.22       | 15       | 25.90       |
| 18                   | 23.87       | 5       | 25.25       | 16       | 25.83       |
| 19                   | 23.86       | 6       | 25.26       | 17       | 25.82       |
| 20                   | 23.90       | 7       | 25.28       | 18       | 25.83       |
| 21                   | 23.93       | 8       | 25.29       | 19       | 25.83       |
| 22                   | 23.96       | 9       | 25.31       | 20       | 25.78       |
| 23                   | 23.97       | 10      | 25.36       | 21       | 25.75       |
| 24                   | 24.01       | 11      | 25.36       | 22       | 25.76       |
| 25                   | 24.04       | 12      | 25.37       | 23       | 25.76       |
| 26                   | 24.07       | 13      | 25.38       | 24       | 25.75       |
| 27                   | 24.09       | 14      | 25.40       | 25       | 25.74       |
| 28                   | 24.10       | 15      | 25.42       | 26       | 25.72       |
| 29                   | 24.10       | 16      | 25.44       | 27       | 25.69       |
| 30                   | 24.13       | 17      | 25.47       | 28       | 25.66       |
| July 1               | 24.16       | 18      | 25.49       | 29       | 25.60       |
| 2                    | 24.18       | 19      | 25.50       | 30       | 25.54       |
| 3                    | 24.20       | 20      | 25.51       | Dec. 1   | 25.38       |
| 4                    | 24.21       | 21      | 25.52       | 2        | 25.34       |
| 5                    | 24.23       | 22      | 25.53       | 3        | 25.34       |
| 6                    | 24.26       | 24      | 25.67       | 4        | 25.         |

| LEE 2       |       |             |       |             |       |
|-------------|-------|-------------|-------|-------------|-------|
| <u>1953</u> |       | <u>1954</u> |       | <u>1955</u> |       |
| Nov. 17     | 18.98 | June 30     | 13.97 | Jan. 3      | 13.08 |
|             |       | July 29     | 15.76 | Mar. 30     | 13.55 |
| <u>1954</u> |       | Sept. 1     | 16.91 | July 1      | 15.79 |
| Jan. 28     | 15.58 | 30          | 14.42 | Aug. 29     | 17.88 |
| Feb. 26     | 15.27 |             |       | Nov. 30     | 14.53 |
| Mar. 30     | 13.72 | Nov. 2      | 15.69 |             |       |
| Apr. 29     | 13.08 | 29          | 14.55 |             |       |
| June 1      | 10.85 |             |       | <u>1956</u> |       |
|             |       |             |       | Apr. 27     | 10.39 |

Table 5. Water-level fluctuations in selected wells in southeastern New Hampshire--Continued

(In feet below land-surface datum)

## STRAFFORD COUNTY (Continued)

| Date    | Water level | Date    | Water level | Date    | Water level |
|---------|-------------|---------|-------------|---------|-------------|
| LEE 4   |             |         |             |         |             |
| 1953    |             | 1954    |             | 1955    |             |
| Nov. 17 | 3.63        | June 1  | 1.47        | July 1  | 2.90        |
| 1954    |             | 30      | 2.13        | Aug. 30 | 3.34        |
| Jan. 8  | 3.07        | July 29 | 2.55        | Oct. 31 | 2.85        |
| 28      | 3.17        | Sept. 1 | 2.48        | Nov. 30 | 2.71        |
| Feb. 15 | 3.32        | 29      | 2.20        | 1956    |             |
| 26      | 2.69        | Nov. 1  | 2.53        | Jan. 30 | 2.46        |
| Mar. 30 | 2.54        | 30      | 1.74        | Apr. 30 | 0.87        |
| Apr. 15 | 2.80        | 1955    |             | June 1  | 1.97        |
| 20      | 1.98        | Jan. 3  | 1.49        | Aug. 1  | 2.88        |
| 29      | 2.16        | Mar. 31 | 1.69        | Oct. 11 | 3.28        |

|         |       |         |      |         |      |
|---------|-------|---------|------|---------|------|
| LEE 7   |       |         |      |         |      |
| 1954    |       | 1954    |      | 1955    |      |
| Jan. 26 | 10.80 | July 29 | 8.20 | Jan. 3  | 7.81 |
| Mar. 4  | 10.31 | Sept. 1 | 9.12 | Mar. 30 | 8.06 |
| 30      | 9.90  | 30      | 8.31 | July 1  | 8.91 |
| Apr. 29 | 9.21  | Nov. 2  | 8.83 | Nov. 30 | 9.49 |
| June 1  | 7.19  | 29      | 8.49 | 1956    |      |
| 30      | 7.63  |         |      | Apr. 30 | 7.53 |

|         |      |        |       |         |       |
|---------|------|--------|-------|---------|-------|
| LEE 9   |      |        |       |         |       |
| 1955    |      | 1955   |       | 1955    |       |
| Apr. 11 | 9.86 | June 3 | 11.83 | Aug. 29 | 16.45 |
| May 2   | 9.34 | July 1 | 12.94 |         |       |

|           |      |          |      |          |      |
|-----------|------|----------|------|----------|------|
| MADBURY 3 |      |          |      |          |      |
| 1954      |      | 1954     |      | 1955     |      |
| Jan. 21   | 3.60 | Sept. 13 | 2.51 | Mar. 31  | 2.57 |
| 29        | 3.46 | 29       | 2.95 | Apr. 21  | 2.71 |
| Feb. 26   | 3.13 | Nov. 1   | 2.94 | May 20   | 2.93 |
| Mar. 30   | 3.21 | 30*      | 7.05 | June 3   | 2.91 |
| Apr. 9    | 3.35 | 1955     |      | 29       | 3.09 |
| 29        | 3.06 | Jan. 4   | 3.25 | July 15  | 3.18 |
| May 14    | 2.45 | 11       | 3.20 | 22       | 3.44 |
| June 1    | 2.75 | 17       | 3.12 | Aug. 2   | 3.65 |
| 30        | 2.85 | 28       | 3.07 | Sept. 30 | 3.54 |
| July 13   | 2.93 | Feb. 4   | 3.07 | Oct. 31  | 2.98 |
| 29        | 3.02 | 11       | 2.86 | Nov. 25  | 3.65 |
| Aug. 12   | 3.05 | 28       | 2.65 | Dec. 29  | 3.75 |
| Sept. 1   | 3.02 | Mar. 10  | 2.82 | 1956     |      |
|           |      | 16       | 2.41 | Jan. 31  | 3.94 |

\*Water level affected by pumping test on  
Madbury 11, 12, 13, and 14.

|           |      |         |      |        |      |
|-----------|------|---------|------|--------|------|
| MADBURY 6 |      |         |      |        |      |
| 1954      |      | 1954    |      | 1954   |      |
| Jan. 26   | 4.39 | Mar. 30 | 3.65 | June 1 | 1.71 |
| Feb. 26   | 4.08 | Apr. 29 | 3.20 | 30     | 2.25 |

|           |       |         |       |          |      |
|-----------|-------|---------|-------|----------|------|
| MADBURY 9 |       |         |       |          |      |
| 1954      |       | 1955    |       | 1956     |      |
| Apr. 20   | 410.2 | Mar. 31 | 49.7  | Oct. 26  | 47.3 |
| May 10    | 410.8 | Apr. 22 | 410.1 | 1957     |      |
| June 1    | 411.0 | July 1  | 49.5  | May 7    | 45.4 |
| July 1    | 411.4 | Aug. 2  | 49.2  | 20       | 45.9 |
| Aug. 3    | 410.8 | 30      | 49.0  | July 11  | 45.5 |
| Sept. 1   | 410.6 | Oct. 31 | 48.7  | Aug. 2   | 45.3 |
| 29        | 410.3 | 1956    |       | Sept. 30 | 44.6 |
| Nov. 1    | 410.1 | June 29 | 48.7  | Nov. 25  | 44.6 |
|           |       | Aug. 1  | 48.1  |          |      |

|             |      |         |      |          |      |
|-------------|------|---------|------|----------|------|
| ROCHESTER 6 |      |         |      |          |      |
| 1953        |      | 1954    |      | 1955     |      |
| Dec. 21     | 5.58 | Nov. 1  | 5.69 | Sept. 30 | 6.75 |
| 1954        |      | 30      | 4.73 | Oct. 31  | 5.72 |
| Jan. 28     | 5.69 | 1955    |      | Nov. 30  | 5.60 |
| Feb. 15     | 5.88 | Jan. 4  | 4.92 | Dec. 29  | 5.80 |
| 25          | 4.93 | Feb. 4  | 5.83 | 1956     |      |
| Mar. 30     | 4.90 | Mar. 3  | 4.60 | Jan. 30  | 5.37 |
| Apr. 29     | 4.83 | 31      | 5.02 | Feb. 29  | 5.59 |
| May 10      | 1.48 | Apr. 22 | 5.13 | Apr. 30  | 3.84 |
| June 1      | 4.88 | June 3  | 5.49 | June 1   | 5.13 |
| 30          | 5.33 | July 6  | 5.94 | 29       | 5.70 |
| July 28     | 6.17 | Aug. 2  | 6.35 | Aug. 31  | 6.31 |
| Sept. 1     | 5.83 | 29      | 6.08 | Oct. 30  | 5.69 |
| 29          | 5.39 |         |      |          |      |

|             |      |         |      |         |      |
|-------------|------|---------|------|---------|------|
| ROCHESTER 9 |      |         |      |         |      |
| 1954        |      | 1954    |      | 1954    |      |
| Apr. 29     | 3.11 | Sept. 1 | 3.20 | Nov. 30 | 2.10 |
| June 1      | 2.13 | 16      | 2.18 | 1955    |      |
| 30          | 2.88 | 29      | 2.67 | Mar. 31 | 2.32 |
| July 28     | 3.49 | Nov. 1  | 3.02 | July 6  | 3.23 |

|               |      |         |      |         |      |
|---------------|------|---------|------|---------|------|
| SOMERSWORTH 4 |      |         |      |         |      |
| 1954          |      | 1954    |      | 1954    |      |
| Jan. 22       | 7.02 | Feb. 25 | 6.59 | July 28 | 5.11 |
| 28            | 6.83 | Apr. 29 | 4.39 |         |      |

|               |      |         |      |         |      |
|---------------|------|---------|------|---------|------|
| SOMERSWORTH 5 |      |         |      |         |      |
| 1954          |      | 1954    |      | 1955    |      |
| Jan. 28       | 5.97 | July 28 | 3.94 | Mar. 31 | 2.41 |
| Feb. 25       | 5.82 | Sept. 1 | 5.39 | July 26 | 5.34 |
| Mar. 30       | 3.92 | 29      | 3.89 | Aug. 29 | 7.44 |
| Apr. 29       | 3.08 | Nov. 1  | 4.07 | Nov. 30 | 5.18 |
| June 1        | 1.40 | 30      | 3.12 | 1956    |      |
| 30            | 3.33 | 1955    |      | Apr. 30 | 1.95 |
|               |      | Jan. 4  | 2.17 | Oct. 26 | 8.40 |

Table 6.--Chemical analyses of water samples from selected wells and springs in southeastern New Hampshire

Analyses by U. S. Geological Survey unless indicated otherwise

| Well                                                | Geologic unit              | Date of collection | Temperature (°F) | Parts per million          |                     |                 |                |              |                |             |               |                                 |                            |               |              |                            |                                    |                  |                       |              | Hardness as CaCO <sub>3</sub> | Specific conductance (micromhos at 25°C) | pH | Color $\downarrow$                                                 | Remarks $\downarrow$ |
|-----------------------------------------------------|----------------------------|--------------------|------------------|----------------------------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------------|---------------------------------|----------------------------|---------------|--------------|----------------------------|------------------------------------|------------------|-----------------------|--------------|-------------------------------|------------------------------------------|----|--------------------------------------------------------------------|----------------------|
|                                                     |                            |                    |                  | Silica (SiO <sub>2</sub> ) | Dissolved iron (Fe) | Total iron (Fe) | Manganese (Mn) | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) | Potassium (K) | Bicarbonate (HCO <sub>3</sub> ) | Sulfate (SO <sub>4</sub> ) | Chloride (Cl) | Fluoride (F) | Nitrate (NO <sub>3</sub> ) | (Residue on evaporation at 180° C) | Dissolved solids | Calcium and magnesium | Noncarbonate |                               |                                          |    |                                                                    |                      |
| U.S. Public Health Service drinking-water standards |                            |                    |                  |                            |                     |                 | 0.3            |              |                | 125         |               |                                 |                            | 250           | 250          | 1.5                        |                                    | 500              |                       |              |                               |                                          |    |                                                                    |                      |
| Rockingham County                                   |                            |                    |                  |                            |                     |                 |                |              |                |             |               |                                 |                            |               |              |                            |                                    |                  |                       |              |                               |                                          |    |                                                                    |                      |
| Brentwood 1                                         | Ice-contact deposits       | 10-4-56            | 55               | 8.7                        | 0.03                | 0.04            | 0.00           | 22           | 3.8            | 11          | 5.2           | 48                              | 26                         | 17            | 0.0          | 11                         | 139                                | 71               | 31                    | 222          | 6.7                           | 5                                        |    |                                                                    |                      |
| Exeter 2                                            | do.                        | 10-5-56            | 52               | 12                         | .16                 | .24             | .00            | 23           | 3.7            | 17          | 3.5           | 98                              | 15                         | 12            | .0           | .3                         | 139                                | 73               | 0                     | 229          | 7.5                           | 12                                       |    |                                                                    |                      |
| Exeter sp 1                                         | Outwash and shore deposits | 10-4-56            | 50               | 10                         | .03                 | .03             | .00            | 18           | 3.7            | 16          | 7.9           | 26                              | 32                         | 25            | .0           | 16                         | 149                                | 60               | 40                    | 244          | 6.1                           | 3                                        |    |                                                                    |                      |
| Greenland 1                                         | Ice-contact deposits       | 5-13-54            | -                | -                          | <.1                 | -               | -              | -            | -              | -           | -             | -                               | -                          | 12            | -            | .5                         | -                                  | -                | -                     | -            | 6.6                           | -                                        |    | Analyzed by New Hampshire State Dept. Health.                      |                      |
| Hampton 3                                           | do.                        | 9-28-54            | 52               | 12                         | .01                 | .08             | .00            | 16           | 3.5            | 8.1         | 2.2           | 40                              | 21                         | 12            | .0           | 4.2                        | 102                                | 55               | 22                    | 164          | 7.8                           | 2                                        |    | Aluminum (Al) 0.1 ppm; lithium (Li) 0.1 ppm.                       |                      |
| Kensington 7                                        | do.                        | 10-5-56            | -                | -                          | .02                 | -               | -              | -            | -              | -           | -             | 80                              | -                          | 6.0           | -            | -                          | -                                  | 79               | 13                    | 169          | 8.2                           | -                                        |    |                                                                    |                      |
| Kingston 11                                         | 10: Till                   | 10-5-56            | 52               | -                          | .03                 | -               | -              | -            | -              | -           | -             | 12                              | -                          | 5.9           | -            | -                          | -                                  | 16               | 6                     | 60           | 6.5                           | -                                        |    |                                                                    |                      |
| Kingston 11                                         | Outwash and shore deposits | 10-5-56            | -                | -                          | .07                 | -               | -              | -            | -              | -           | -             | 48                              | -                          | 87            | -            | -                          | -                                  | 84               | 45                    | 432          | 6.6                           | -                                        |    |                                                                    |                      |
| Newfields 4                                         | Ice-contact deposits       | 10-5-56            | 48               | -                          | .01                 | -               | -              | -            | -              | -           | -             | 36                              | -                          | 25            | -            | -                          | -                                  | 53               | 24                    | 196          | 6.8                           | -                                        |    |                                                                    |                      |
| Newmarket sp 3                                      | do.                        | 10-3-56            | 50               | -                          | .02                 | -               | -              | -            | -              | -           | -             | 28                              | -                          | 16            | -            | -                          | -                                  | 43               | 20                    | 138          | 6.8                           | -                                        |    |                                                                    |                      |
| Plaistow 1                                          | do.                        | 10-5-56            | 52               | -                          | .02                 | -               | -              | -            | -              | -           | -             | 23                              | -                          | 6.7           | -            | -                          | -                                  | 45               | 26                    | 133          | 6.6                           | -                                        |    |                                                                    |                      |
| 9                                                   | Outwash and shore deposits | 10-5-56            | 55               | -                          | .07                 | -               | -              | -            | -              | -           | -             | 34                              | -                          | 14            | -            | -                          | -                                  | 16               | 0                     | 189          | 6.3                           | -                                        |    |                                                                    |                      |
| Portsmouth 1                                        | Ice-contact deposits       | 6-5-51             | -                | 13                         | -                   | .01             | -              | 26           | 12             | 5.2         | 1.7           | 73                              | 54                         | 7.0           | .0           | 1.4                        | 156                                | 114              | 54                    | 206          | 7.1                           | 3                                        |    | From Lohr and Love, 1954, p. 305.                                  |                      |
| 2                                                   | do.                        | 6-5-51             | -                | 13                         | -                   | .01             | -              | 26           | 11             | 5.2         | 1.5           | 72                              | 54                         | 6.0           | .0           | 1.2                        | 153                                | 110              | 51                    | 204          | 7.5                           | 3                                        |    | Finished water at Gosling Station.                                 |                      |
| 2                                                   | do.                        | 5-13-54            | -                | -                          | <.1                 | -               | -              | -            | -              | -           | -             | -                               | -                          | 7.6           | -            | .2                         | -                                  | -                | -                     | -            | 7.6                           | -                                        |    | Analyzed by New Hampshire State Dept. Health                       |                      |
| 4                                                   | do.                        | 6-5-51             | -                | 13                         | -                   | .01             | -              | 39           | 10             | 7.7         | 2.2           | 110                             | 52                         | 9.0           | .0           | 3.6                        | 191                                | 139              | 49                    | 321          | 7.4                           | 4                                        |    | From Lohr and Love, 1954, p. 305.                                  |                      |
|                                                     |                            |                    |                  |                            |                     |                 |                |              |                |             |               |                                 |                            |               |              |                            |                                    |                  |                       |              |                               |                                          |    | Finished water at Sherborne Station.                               |                      |
| Rye 1                                               | do.                        | 2-11-54            | 50               | 12                         | .01                 | .23             | .00            | 8.9          | 2.5            | 14          | 8.2           | 18                              | 20                         | 14            | .1           | 26                         | 115                                | 34               | 19                    | 166          | 6.8                           | 15                                       |    | Aluminum (Al) 0.2 ppm; copper (Cu) 0.27 ppm; lithium (Li) 0.4 ppm. |                      |
| Seabrook 1                                          | do.                        | 10-5-56            | 47               | 11                         | .03                 | .03             | .00            | 8.6          | 1.4            | 4.0         | 1.3           | 25                              | 5.6                        | 7.2           | .0           | 3.3                        | 56                                 | 27               | 7                     | 84           | 6.5                           | 2                                        |    |                                                                    |                      |

Table 6.--Chemical analyses of water samples from selected wells and springs in southeastern New Hampshire--Continued

(Analyses by U. S. Geological Survey unless indicated otherwise)

| Well             | Geologic unit                  | Date of collection | Temperature (°F) | Parts per million          |                     |                 |                |              |                |             |               |                                 |                            |               |              |                            |                                    |                                        |              | Hardness as CaCO <sub>3</sub> |     | Specific conductance (micromhos at 25° C) | pH                                                                                                                                              | Color 1/                                     | Remarks 2/ |
|------------------|--------------------------------|--------------------|------------------|----------------------------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------------|---------------------------------|----------------------------|---------------|--------------|----------------------------|------------------------------------|----------------------------------------|--------------|-------------------------------|-----|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|------------|
|                  |                                |                    |                  | Silica (SiO <sub>2</sub> ) | Dissolved iron (Fe) | Total iron (Fe) | Manganese (Mn) | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) | Potassium (K) | Bicarbonate (HCO <sub>3</sub> ) | Sulfate (SO <sub>4</sub> ) | Chloride (Cl) | Fluoride (F) | Nitrate (NO <sub>3</sub> ) | (Residue on evaporation at 180° C) | Dissolved solids Calcium and magnesium | Noncarbonate |                               |     |                                           |                                                                                                                                                 |                                              |            |
| Strafford County |                                |                    |                  |                            |                     |                 |                |              |                |             |               |                                 |                            |               |              |                            |                                    |                                        |              |                               |     |                                           |                                                                                                                                                 |                                              |            |
| Barrington       | 1: Outwash and shore deposits  | 10- 3-56:          | 50:              | -                          | 0.03:               | -               | -              | -            | -              | -           | -             | -                               | 20                         | -             | 96           | -                          | -                                  | -                                      | 63           | 47                            | 388 | 6.3                                       | -                                                                                                                                               | -                                            |            |
| Dover sp 3       | do.                            | 10- 3-56:          | 50:              | -                          | .02:                | -               | -              | -            | -              | -           | -             | -                               | 11                         | -             | 4.0          | -                          | -                                  | -                                      | 13           | 4                             | 39  | 6.4                                       | -                                                                                                                                               | -                                            |            |
| Dover 5          | Ice-contact deposits           | 9-24-52:           | -                | -                          | .5                  | -               | -              | -            | -              | -           | -             | -                               | -                          | -             | 9.2          | -                          | .2                                 | -                                      | -            | -                             | -   | 6.9                                       | -                                                                                                                                               | Analyzed by New Hampshire State Dept. Health |            |
| 5                | do.                            | 5-14-54:           | -                | -                          | .2                  | -               | -              | -            | -              | -           | -             | -                               | -                          | -             | 7.6          | -                          | .2                                 | -                                      | -            | -                             | -   | 7.2                                       | -                                                                                                                                               | Do.                                          |            |
| 6                | do.                            | 9-24-52:           | -                | -                          | 3.0                 | -               | -              | -            | -              | -           | -             | -                               | -                          | -             | 6.2          | -                          | .0                                 | -                                      | -            | -                             | -   | 6.4                                       | -                                                                                                                                               | Do.                                          |            |
| 6                | do.                            | 5-14-54:           | -                | -                          | 3.0                 | -               | -              | -            | -              | -           | -             | -                               | -                          | -             | 8.2          | -                          | .3                                 | -                                      | -            | -                             | -   | 6.3                                       | -                                                                                                                                               | Do.                                          |            |
| 11               | do.                            | 5-13-54:           | 46:              | 14                         | 3/<.1               | -               | .01:           | 3.5:         | .8             | 3.2:        | -             | 14                              | 1.6:                       | 4.0:          | .0:          | .4:                        | 36                                 | 12                                     | 1            | 43                            | 7.0 | 3                                         | -                                                                                                                                               |                                              |            |
| 24               | do.                            | 5- 3-54:           | 48:              | 6.6:                       | -                   | .08:            | .03:           | 3.9:         | .5             | 8.7:        | -             | 4                               | 5.0:                       | 9.5:          | .0:          | 11                         | 52                                 | 9                                      | 6            | 72                            | 6.0 | 5                                         | -                                                                                                                                               |                                              |            |
| 25               | do.                            | 4-21-55:           | -                | -                          | <.1                 | -               | -              | -            | -              | -           | -             | -                               | -                          | -             | 11           | -                          | .2                                 | -                                      | -            | -                             | -   | 6.1                                       | -                                                                                                                                               | Analyzed by New Hampshire State Dept. Health |            |
| Farmington       | 1: do.                         | 5-22-53:           | 44:              | -                          | <.1                 | -               | -              | -            | -              | -           | -             | -                               | -                          | -             | 4.4          | -                          | .0                                 | -                                      | -            | -                             | -   | 6.4                                       | -                                                                                                                                               | Do.                                          |            |
|                  | 1: do.                         | 5-10-54:           | -                | -                          | <.1                 | -               | -              | -            | -              | -           | -             | -                               | -                          | -             | 5.4          | -                          | .2                                 | -                                      | -            | -                             | -   | 6.3                                       | -                                                                                                                                               | Do.                                          |            |
|                  | 4: do.                         | 10- 3-56:          | 49:              | -                          | .03                 | -               | -              | -            | -              | -           | -             | 19                              | -                          | 27            | -            | -                          | -                                  | 48                                     | 32           | 253                           | 6.0 | -                                         | -                                                                                                                                               |                                              |            |
| Lee 5            | do.                            | 5-14-54:           | 47:              | 11                         | -                   | .60:            | .01:           | 6.2:         | 1.8            | 2.5:        | -             | 23                              | 2.4:                       | 4.5:          | .0:          | .6:                        | 48                                 | 23                                     | 4            | 68                            | 7.2 | 2                                         | -                                                                                                                                               |                                              |            |
| 6                | Till                           | 2-11-54:           | -                | 13                         | .00                 | .07:            | .00:           | 21           | 2.8            | 14          | 4.2:          | 62                              | 15                         | 19            | .1           | 8.0:                       | 134                                | 64                                     | 13           | 211                           | 7.4 | 15                                        | Zinc (Zn) 0.10 ppm; lithium (Li) 0.4 ppm; phosphate (PO <sub>4</sub> ) 0.7 ppm.                                                                 |                                              |            |
| Madbury 4        | Ice-contact deposits           | 5-13-54:           | 48:              | 13                         | 3/<.1               | -               | .00:           | 16           | 3.6            | 7.9:        | -             | 54                              | 15                         | 8.0:          | .1           | .6:                        | 102                                | 55                                     | 10           | 163                           | 7.5 | 2                                         | -                                                                                                                                               |                                              |            |
| 11-14            | do.                            | 6-14-56:           | 50:              | 12                         | .06                 | .16:            | .00:           | 8.1          | 2.3            | 5.4:        | -             | 27                              | 7.7                        | 6.3:          | .0:          | 3.1:                       | 67                                 | 30                                     | 8            | 96                            | 6.8 | 18                                        | Turbidity 0.5 ppm as SiO <sub>2</sub> ; free carbon dioxide (CO <sub>2</sub> ) (calc.) 6.8 ppm; alkalinity as CaCO <sub>3</sub> (calc.) 22 ppm. |                                              |            |
| Rochester        | 10: Outwash and shore deposits | 5-10-54:           | 53:              | 12                         | -                   | .37:            | .00:           | 5.8          | 1.8            | 7.0:        | -             | 23                              | 12                         | 3.5:          | .2           | .3:                        | 57                                 | 22                                     | 3            | 78                            | 7.8 | 2                                         | -                                                                                                                                               |                                              |            |
|                  | 18: Bedrock                    | 10-20-55:          | 54:              | 10                         | .07                 | .24:            | .03:           | 9.2          | 2.1            | 10          | 1.9:          | 55                              | 8.8                        | 1.2:          | 1.0:         | .1                         | 72                                 | 32                                     | 0            | 113                           | 8.2 | 3                                         | Lithium (Li) 0.2 ppm; phosphate (PO <sub>4</sub> ) 0.10 ppm. Radiochemical analysis available.                                                  |                                              |            |
| Rollinsford 8    | Ice-contact deposits           | 10- 3-56:          | 49:              | -                          | .04:                | -               | -              | -            | -              | -           | -             | 97                              | -                          | 8.2           | -            | -                          | -                                  | 43                                     | 0            | 227                           | 8.3 | -                                         | -                                                                                                                                               |                                              |            |
| Rollinsford sp 1 | do.                            | 3- 3-55:           | 49:              | -                          | .85:                | -               | -              | -            | -              | -           | -             | -                               | -                          | 12.6:         | -            | .8:                        | -                                  | -                                      | -            | -                             | 6.6 | 25                                        | Analyzed by New Hampshire State Dept. Health.                                                                                                   |                                              |            |

Table 6.--Chemical analyses of water samples from selected wells and springs in southeastern New Hampshire--Continued

(Analyses by U. S. Geological Survey unless indicated otherwise)

| Well                         | Geologic unit        | Date of collection | Temperature (°F) | Parts per million          |                     |                 |                |              |                |             |               |                                 |                            |               |              |                            |                                   |                  |                       | Hardness as CaCO <sub>3</sub> | Specific conductance (micromhos at 25°C) | pH | Color 1/                                               | Remarks 2/ |
|------------------------------|----------------------|--------------------|------------------|----------------------------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------------|---------------------------------|----------------------------|---------------|--------------|----------------------------|-----------------------------------|------------------|-----------------------|-------------------------------|------------------------------------------|----|--------------------------------------------------------|------------|
|                              |                      |                    |                  | Silica (SiO <sub>2</sub> ) | Dissolved Iron (Fe) | Total iron (Fe) | Manganese (Mn) | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) | Potassium (K) | Bicarbonate (HCO <sub>3</sub> ) | Sulfate (SO <sub>4</sub> ) | Chloride (Cl) | Fluoride (F) | Nitrate (NO <sub>3</sub> ) | (Residue on evaporation at 180°C) | Dissolved solids | Calcium and magnesium |                               |                                          |    |                                                        |            |
| Strafford County (Continued) |                      |                    |                  |                            |                     |                 |                |              |                |             |               |                                 |                            |               |              |                            |                                   |                  |                       |                               |                                          |    |                                                        |            |
| Somersworth 1                | Ice-contact deposits | 5-14-51            | -                | 12                         | -                   | 0.37            | 0.04           | 6.2          | 1.2            | 3.3         | 0.6           | 8                               | 14                         | 5.5           | 0.1          | 0.6                        | 47                                | 20               | 14                    | 67                            | 6.1                                      | 1  | From Lohr and Love, 1954, p. 306. Raw water from well. |            |
| 1                            | do.                  | 5-12-54            | 44               | -                          | <.1                 | -               | -              | -            | -              | -           | -             | -                               | -                          | 4.8           | -            | .05                        | -                                 | -                | -                     | -                             | 6.5                                      | -  | Analyzed by New Hampshire State Dept. Health           |            |
| Somersworth sp 1             | do.                  | 10-3-56            | 50               | -                          | .01                 | -               | -              | -            | -              | -           | -             | 19                              | -                          | 32            | -            | -                          | -                                 | 43               | 27                    | 200                           | 6.2                                      | -  |                                                        |            |

<sup>1/</sup> Color data were obtained by comparing color of water sample to the platinum-cobalt scale of Hazen (1892, p. 427-428).<sup>2/</sup> Data furnished by the New Hampshire State Dept. of Health has been rounded to agree with Survey style.<sup>3/</sup> From June 1952 analyses by New Hampshire State Dept. of Health.



FIGURE 3. \_\_\_\_\_  
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