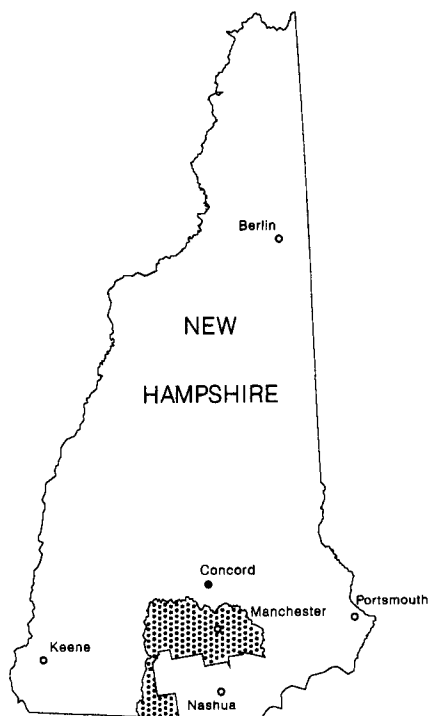


# Geohydrology and Water Quality of Stratified-Drift Aquifers in the Middle Merrimack River Basin, South-Central New Hampshire

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U.S. GEOLOGICAL SURVEY

Water-Resources Investigations Report 92-4192



Prepared in cooperation with the  
NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES,  
WATER RESOURCES DIVISION



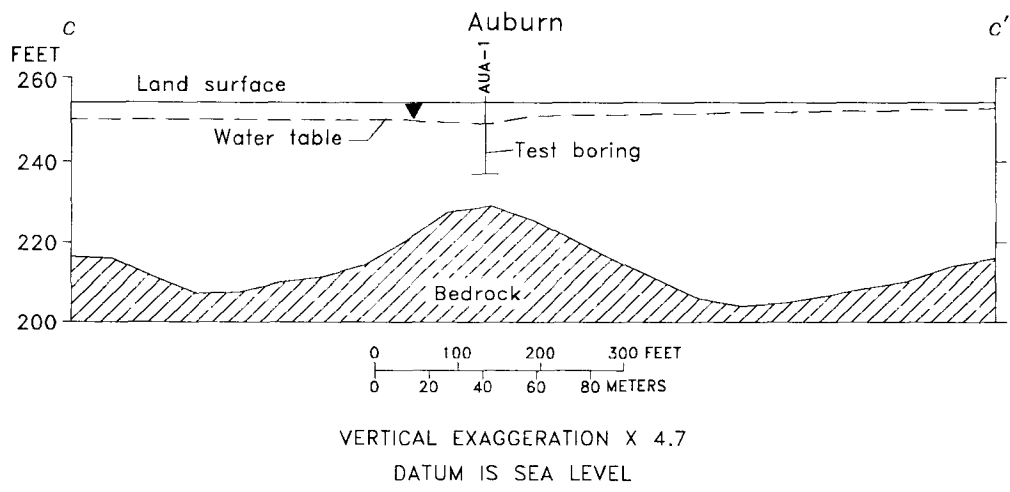
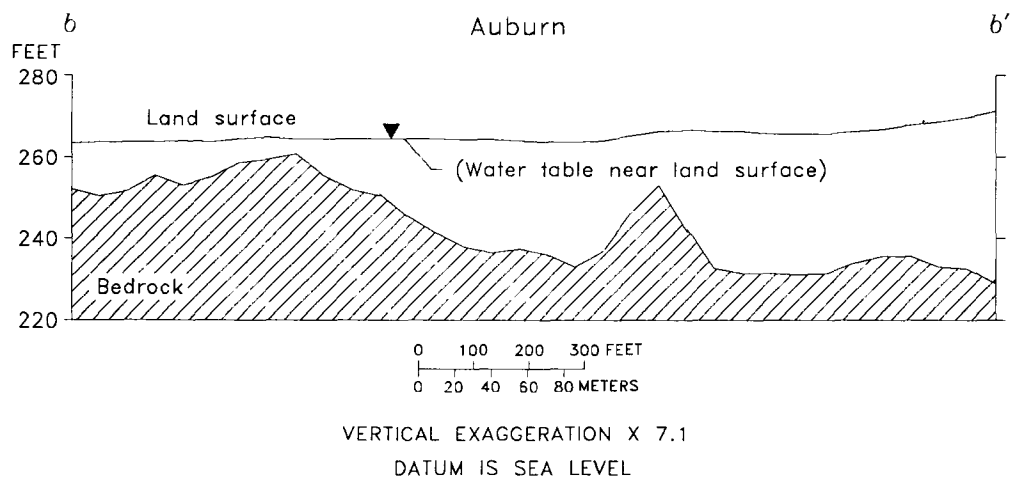
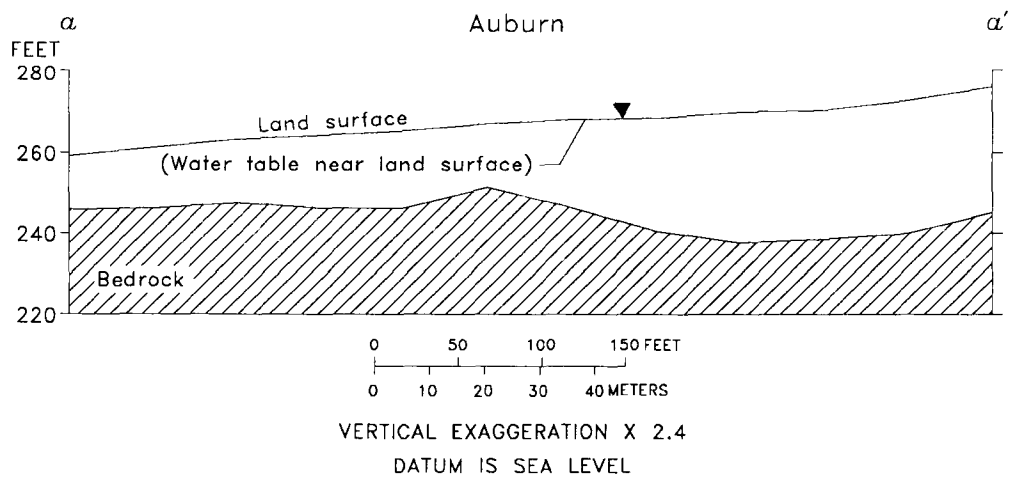
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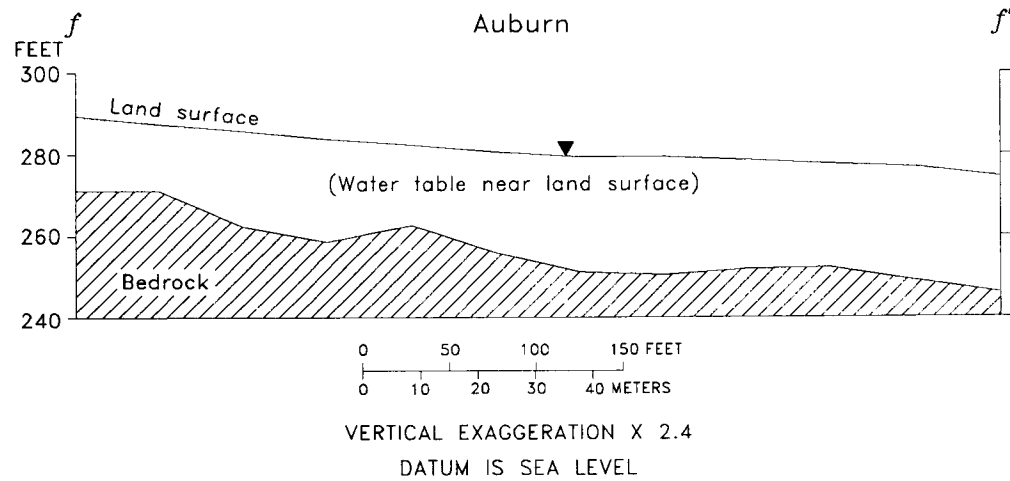
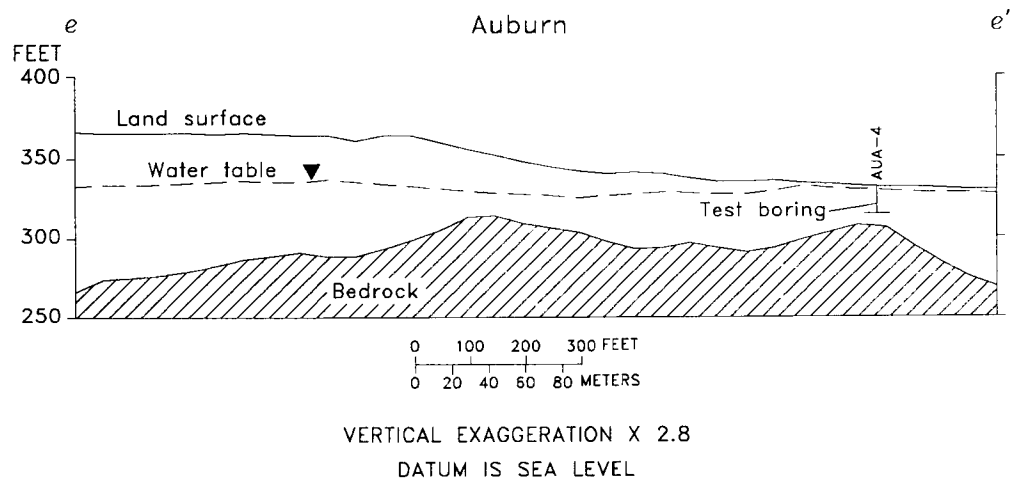
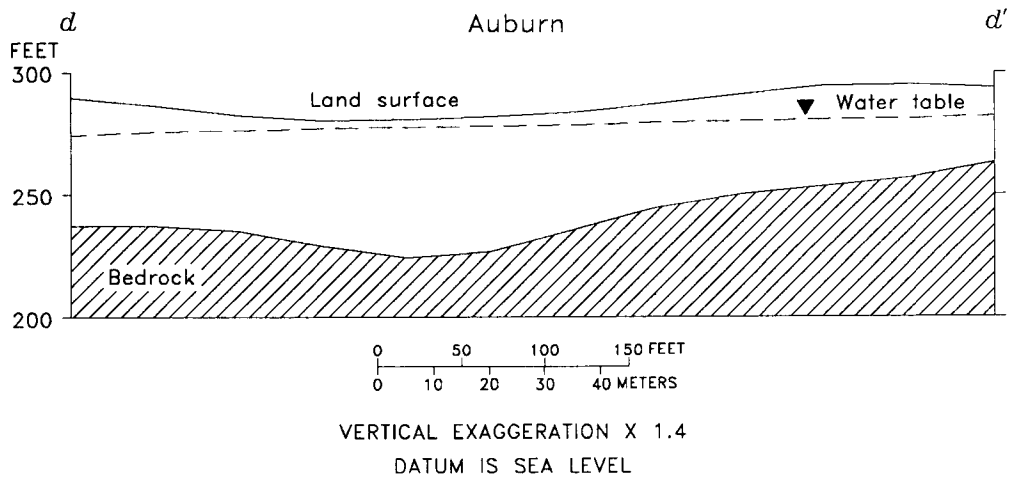
## APPENDIX C

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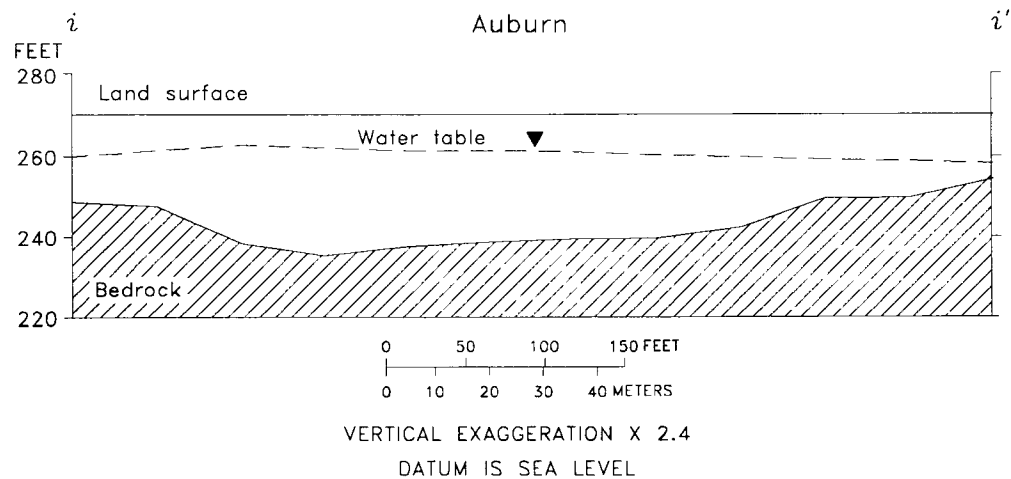
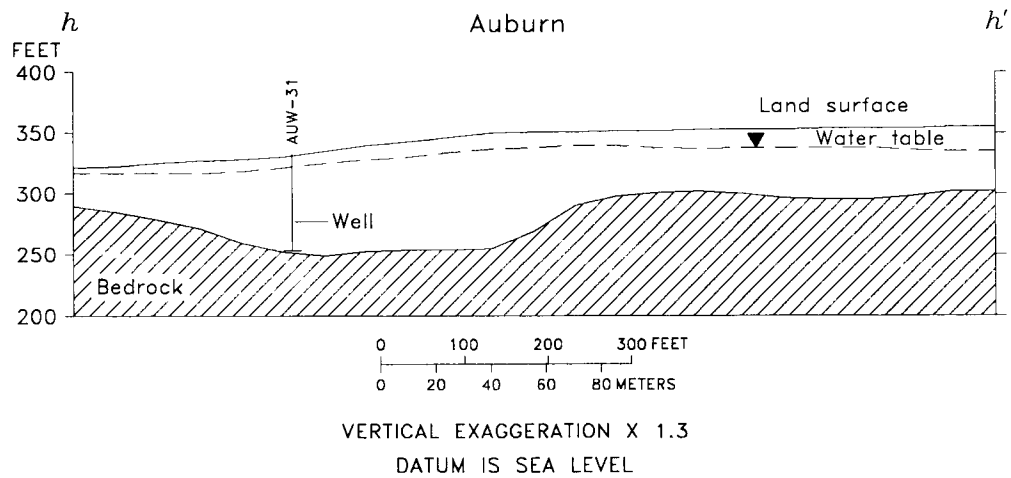
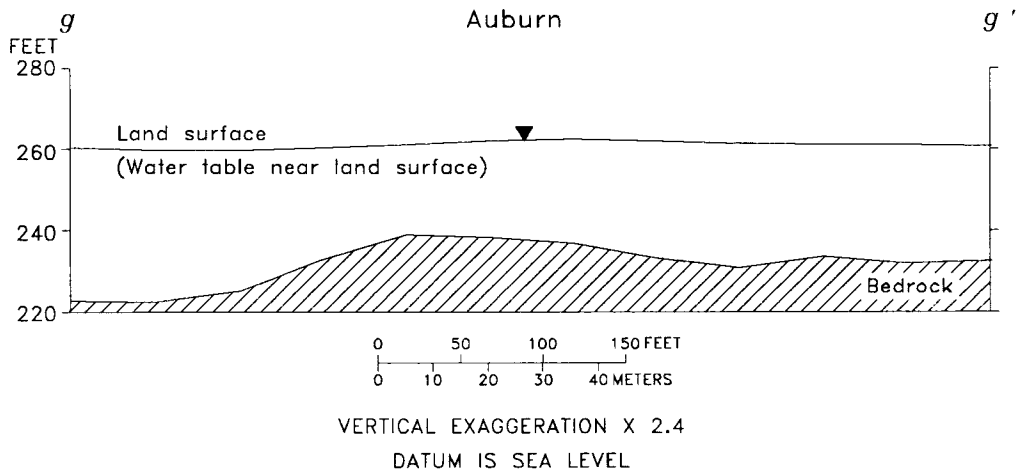
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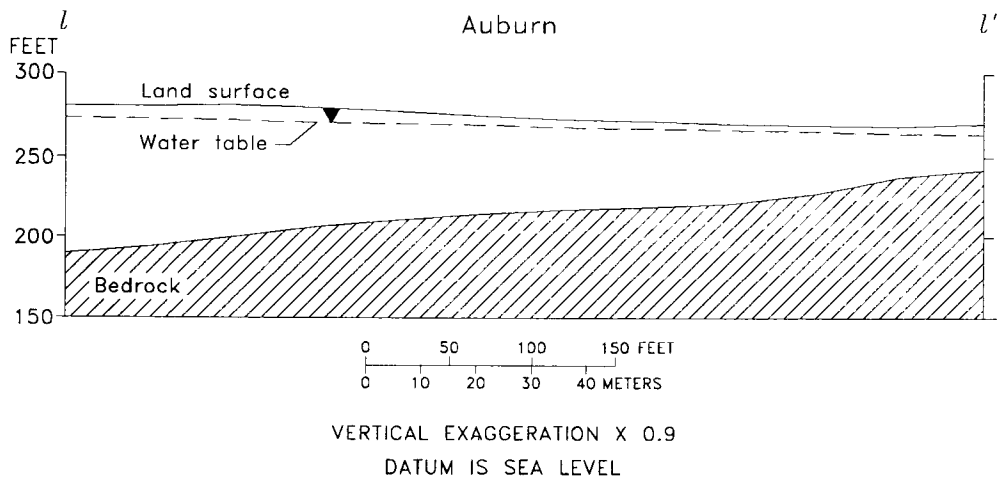
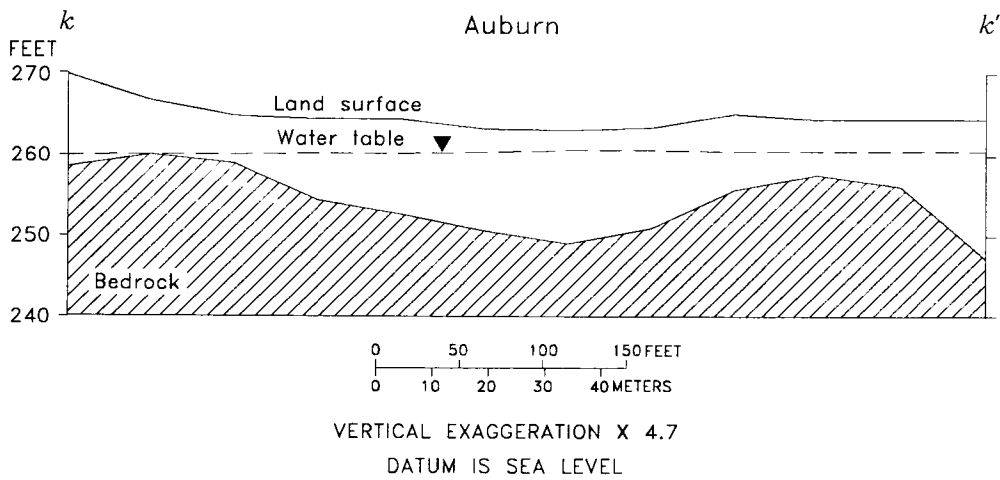
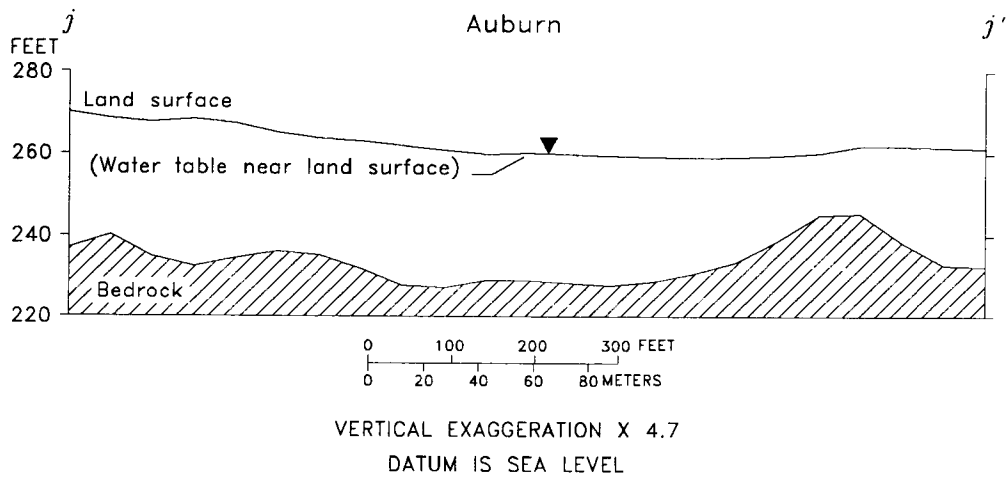
Appendix C1. Geohydrologic sections interpreted from seismic-refraction data for Auburn lines a-a', b-b', and c-c' (locations shown on plate 4).



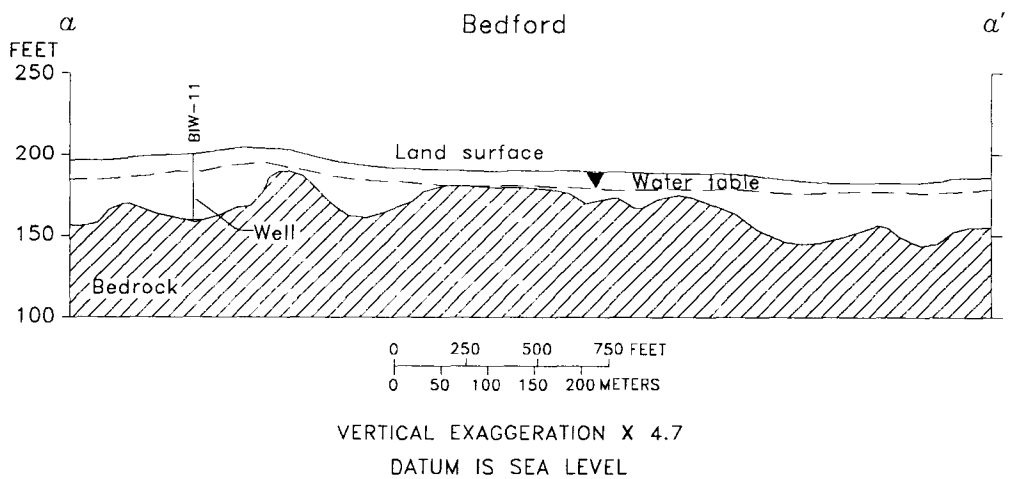
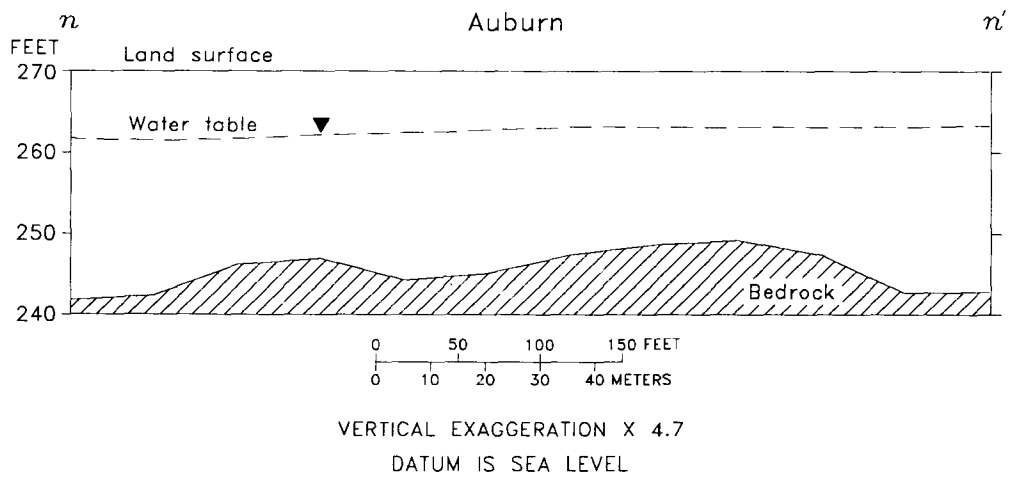
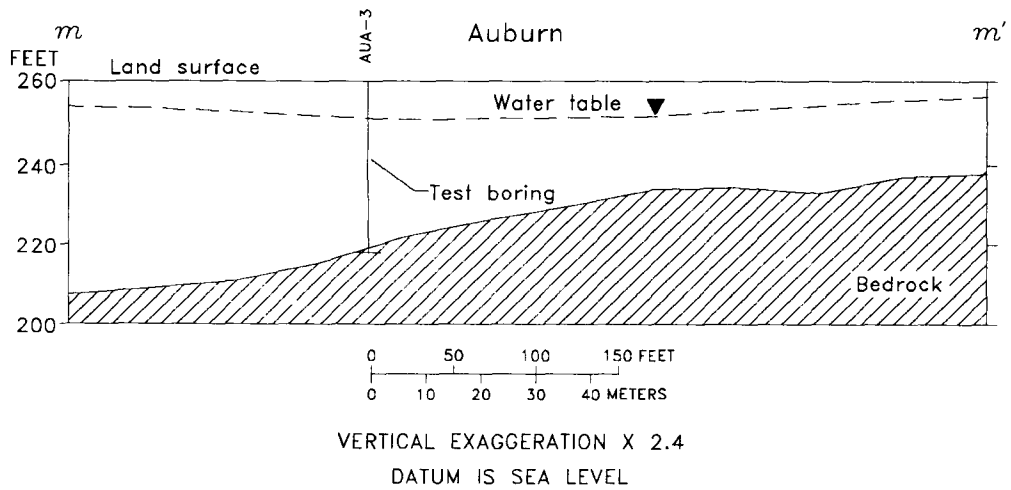
Appendix C2. Geohydrologic sections interpreted from seismic-refraction data for Auburn lines d-d', e-e', and f-f' (locations shown on plate 4).



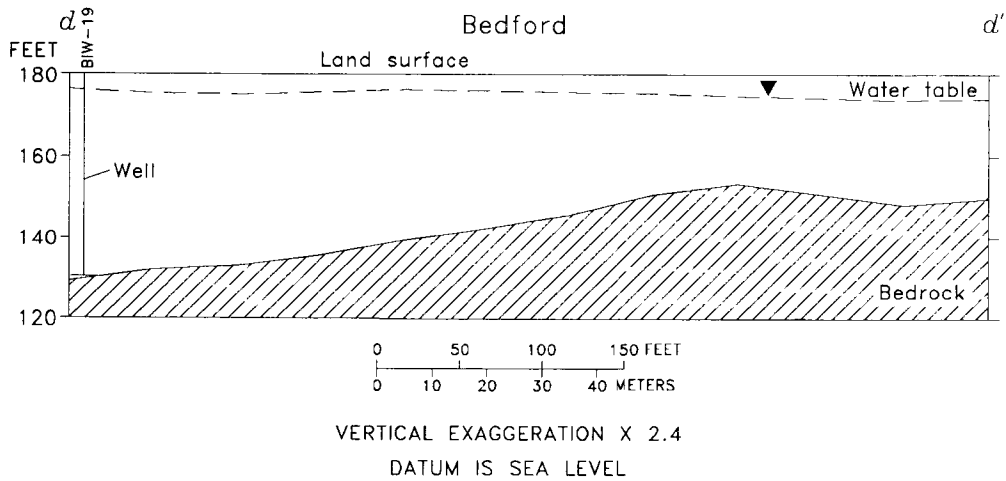
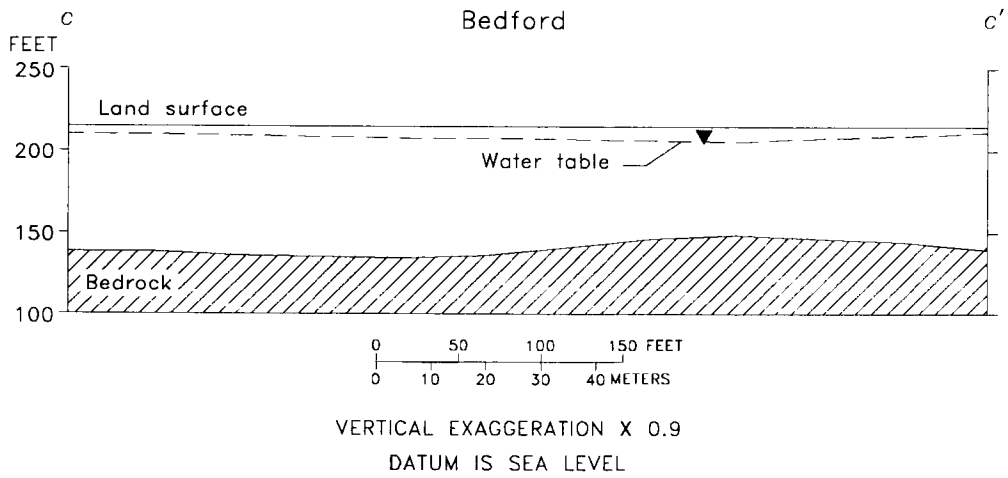
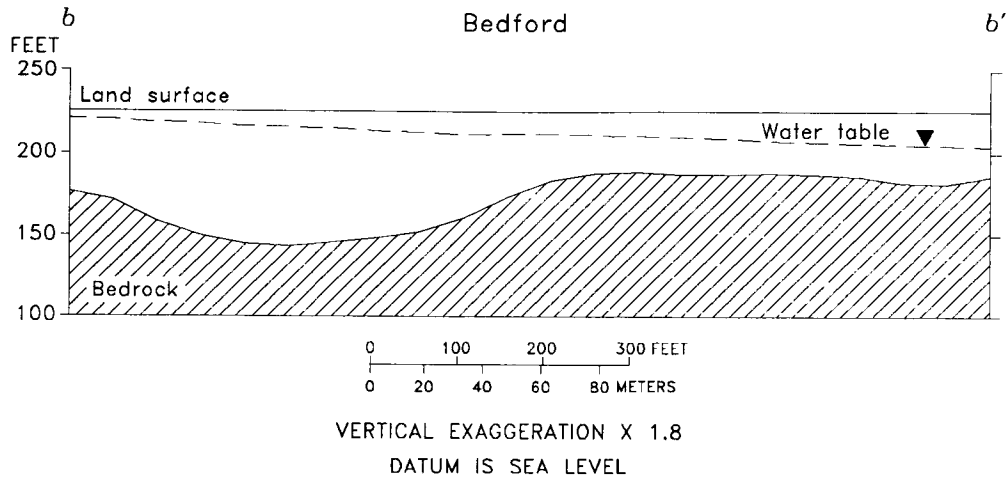
Appendix C3. Geohydrologic sections interpreted from seismic-refraction data for Auburn lines g-g', h-h', and i-i' (locations shown on plate 4).



Appendix C4. Geohydrologic sections interpreted from seismic-refraction data for Auburn lines j-j', k-k', and l-l' (locations shown on plate 4).

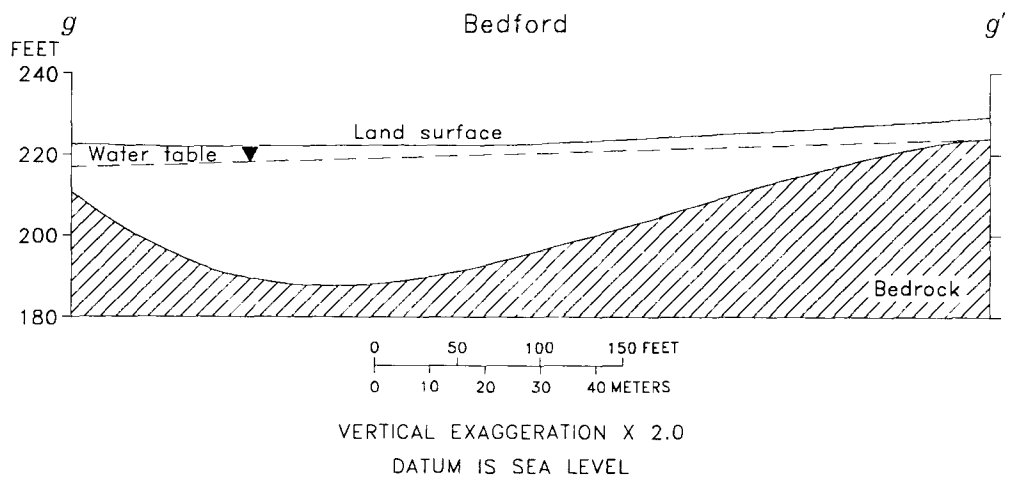
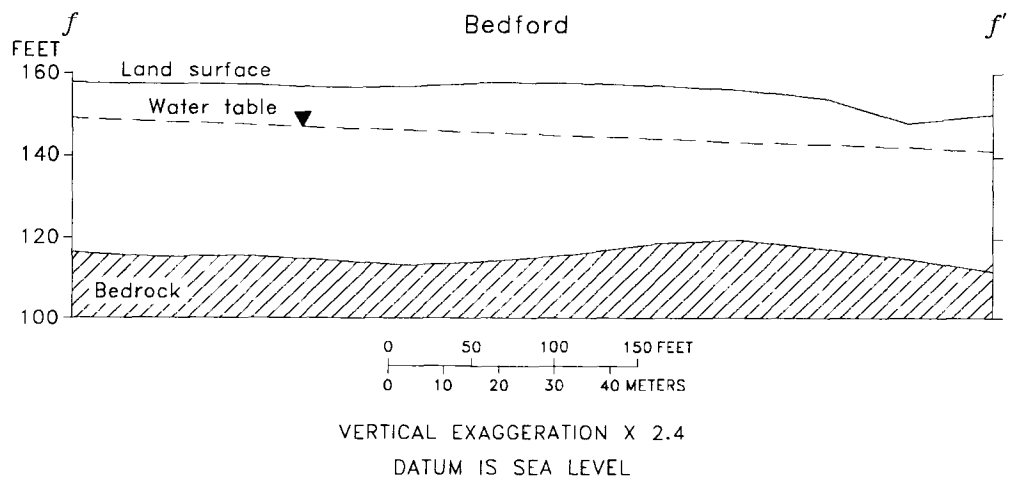
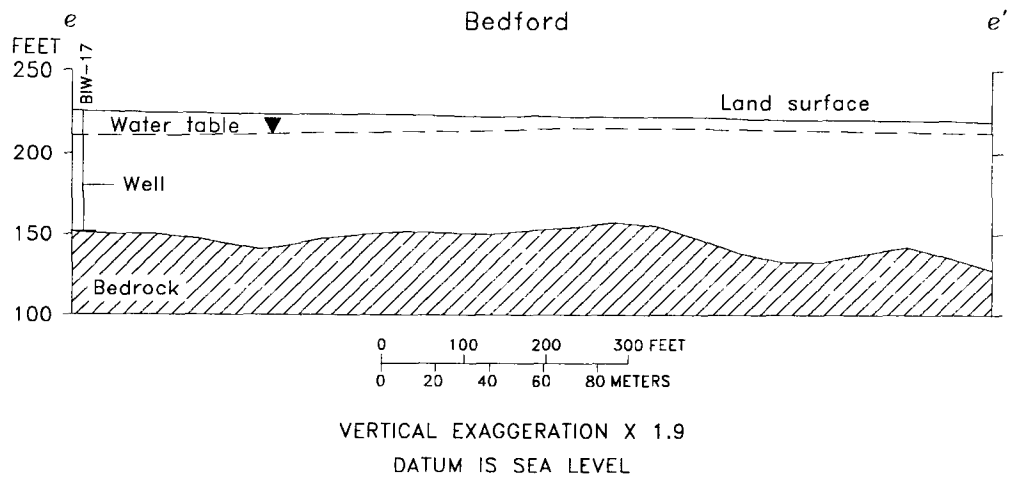


Appendix C5. Geohydrologic sections interpreted from seismic-refraction data for Auburn lines *m-m'* and *n-n'* and Bedford line *a-a'* (locations shown on plate 4).

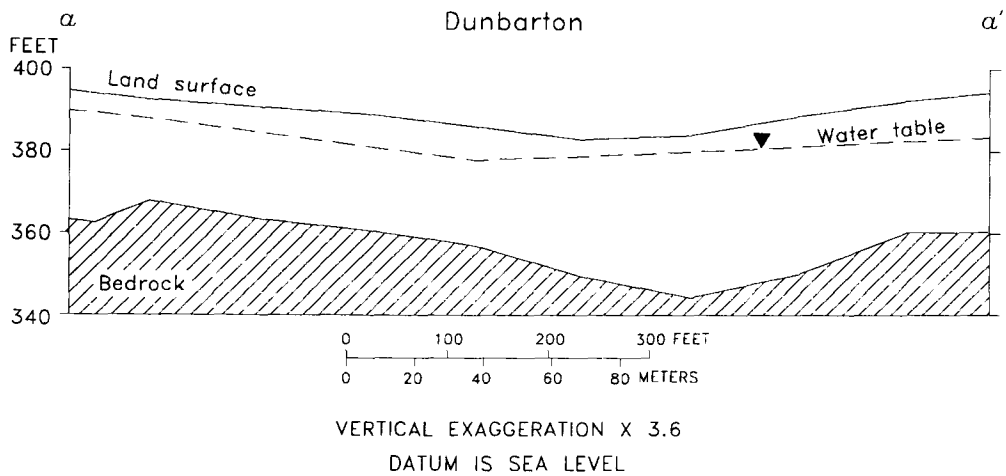
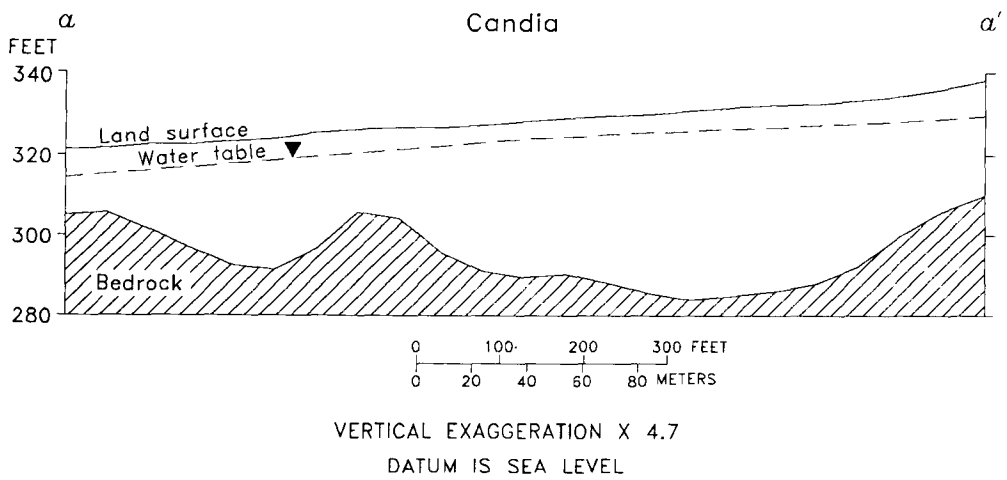
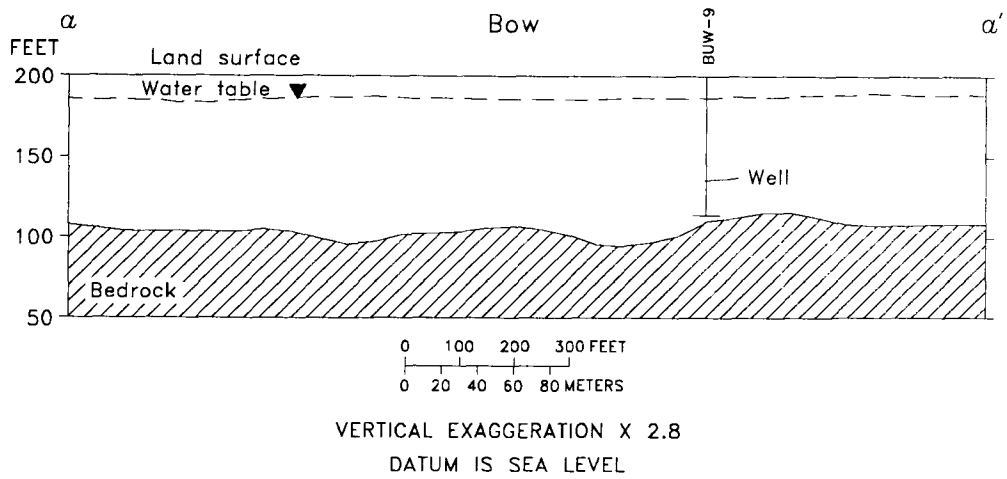


Appendix C6. Geohydrologic sections interpreted from seismic-refraction data for Bedford line b-b' (location shown on plate 3) and Bedford lines c-c', and d-d' (locations shown on plate 4).

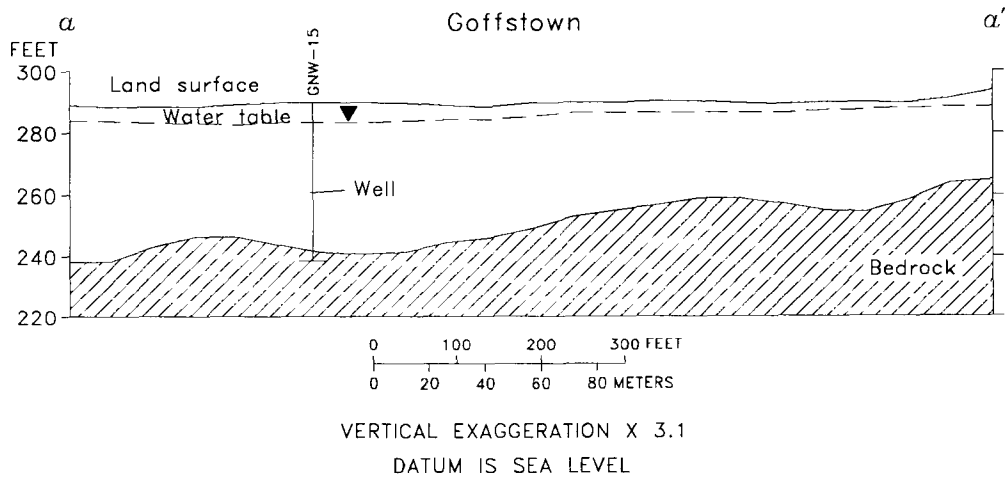
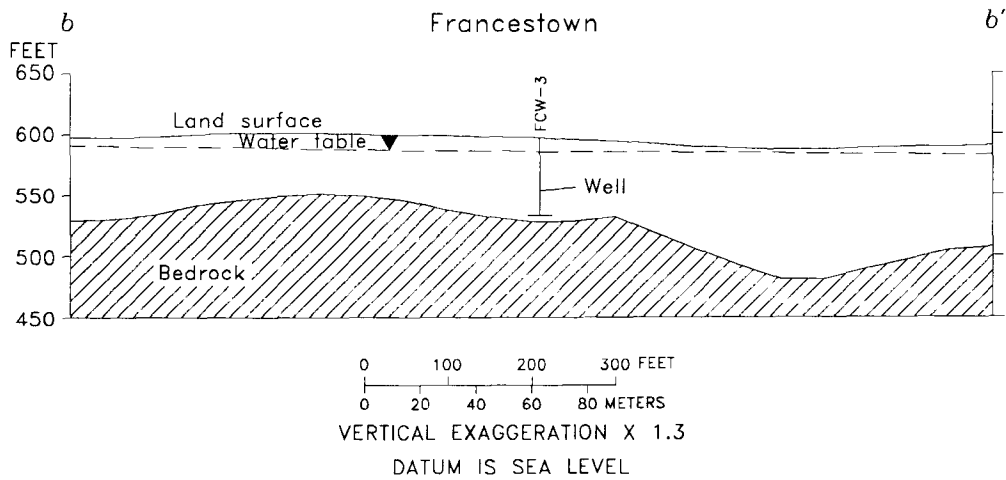
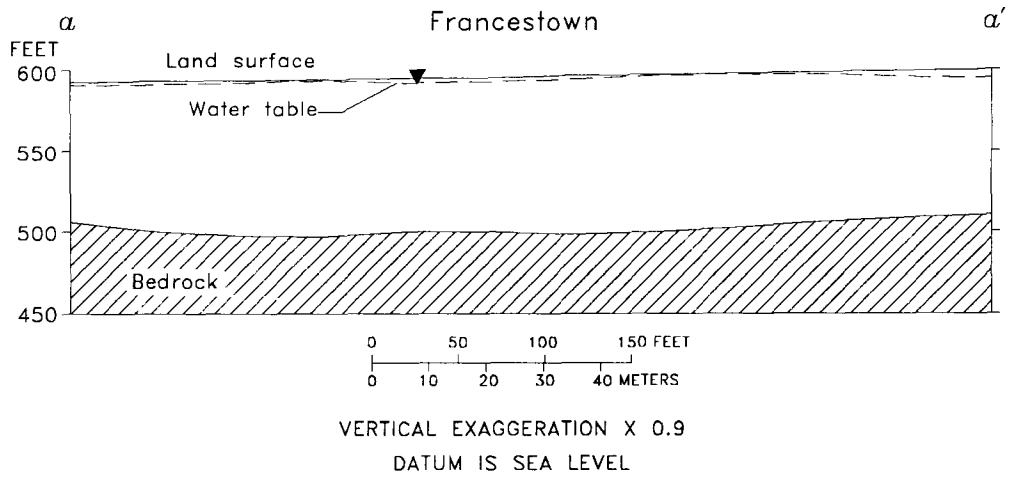




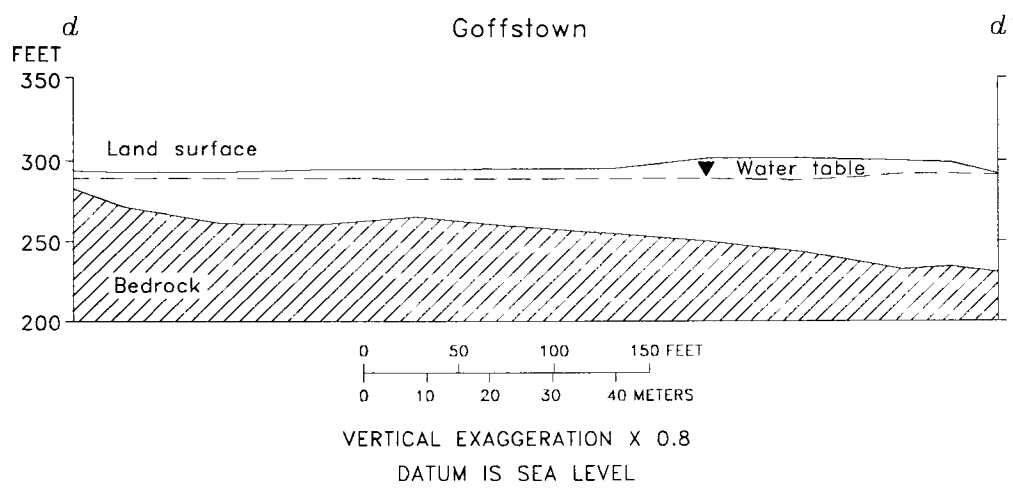
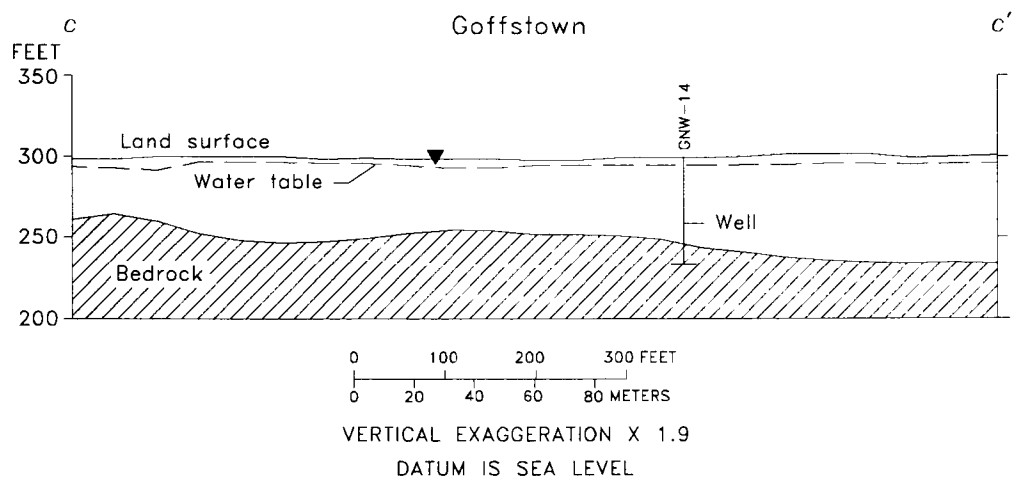
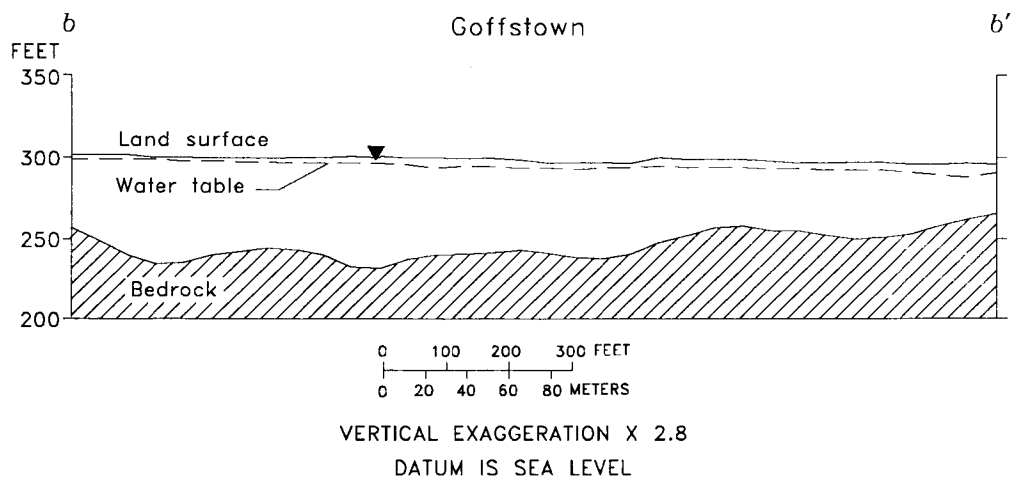
Appendix C7. Geohydrologic sections interpreted from seismic-refraction data for Bedford lines e-e' and f-f' (locations shown on plate 4) and Bedford line g-g' (location shown on plate 3).



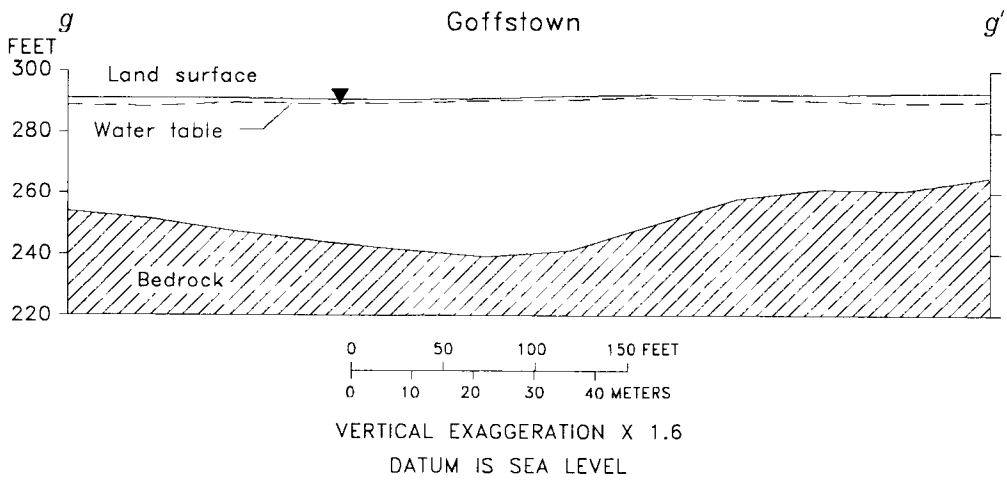
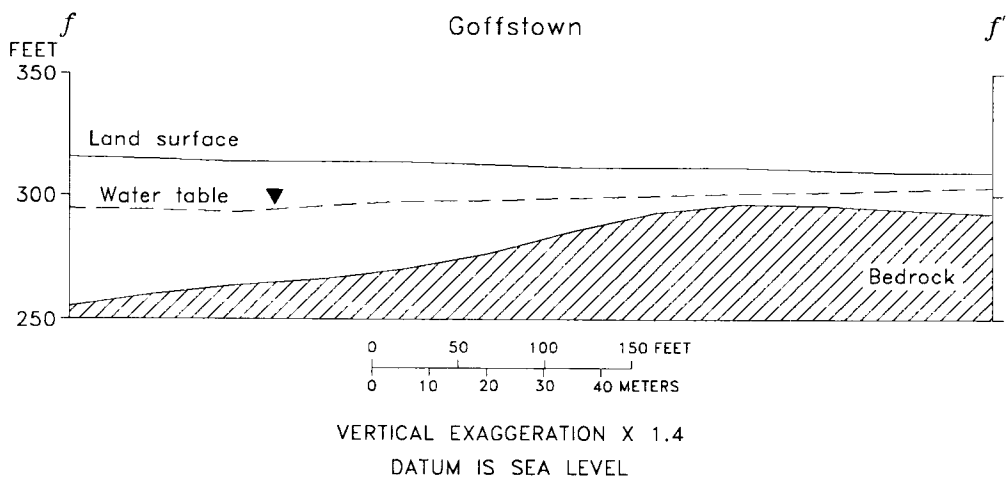
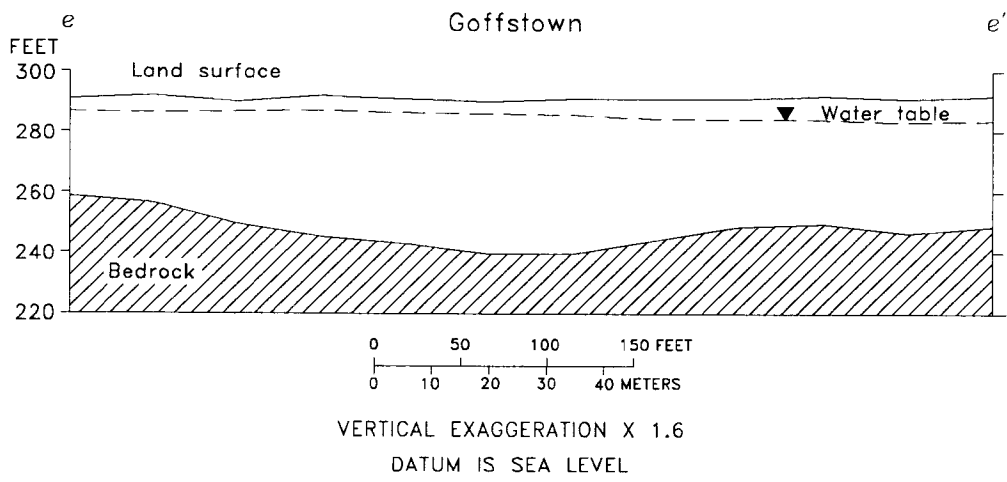
Appendix C8. Geohydrologic sections interpreted from seismic-refraction data for Bow line a-a' and Candia line a-a' (locations shown on plate 4) and Dunbarton line a-a' (location shown on plate 3).



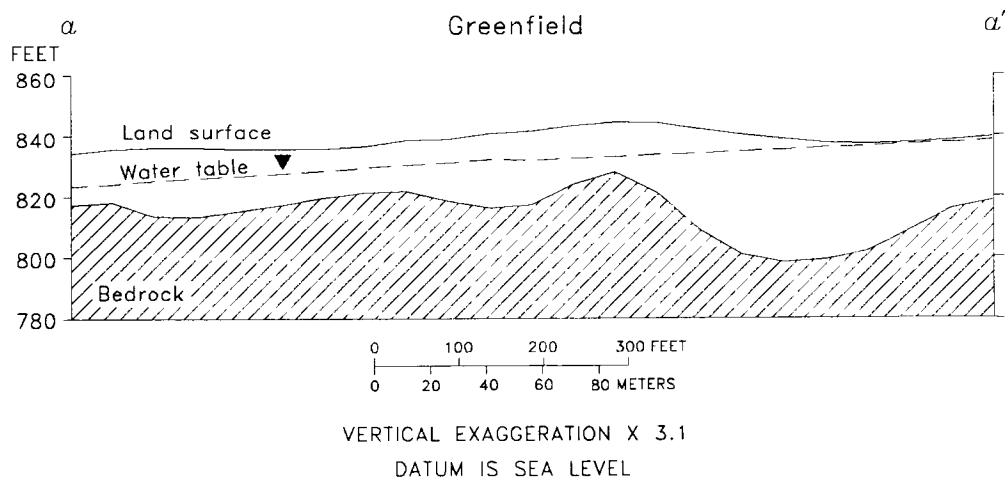
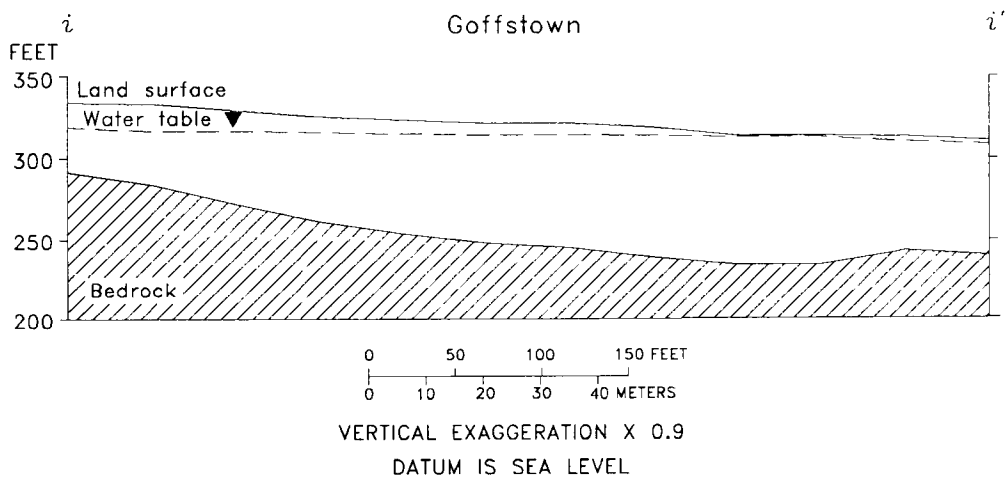
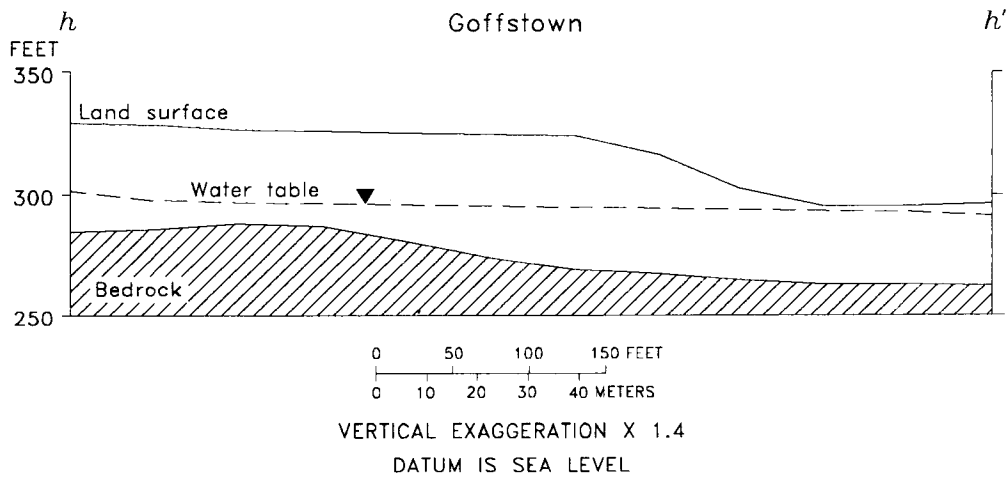
Appendix C9. Geohydrologic sections interpreted from seismic-refraction data for Francetown lines a-a' and b-b' (locations shown on plate 2) and Goffstown line a-a' (location shown on plate 3).



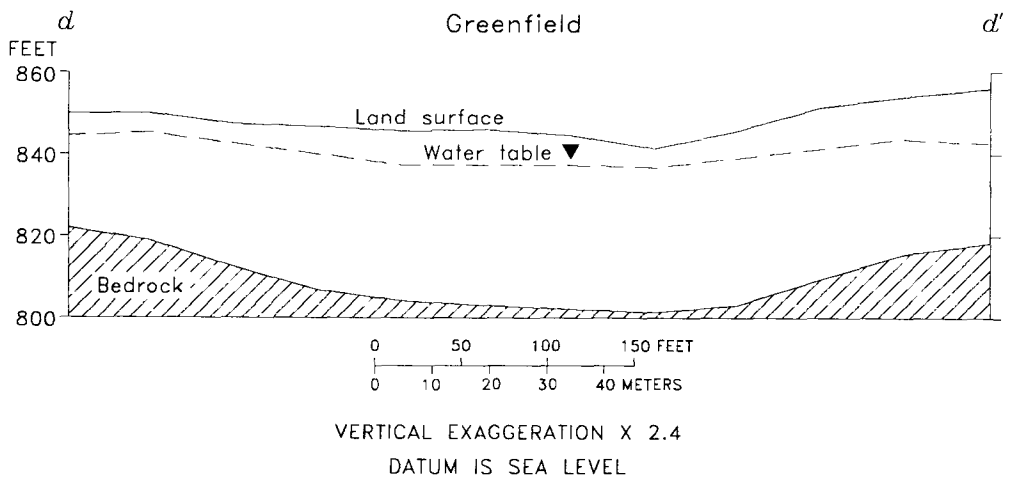
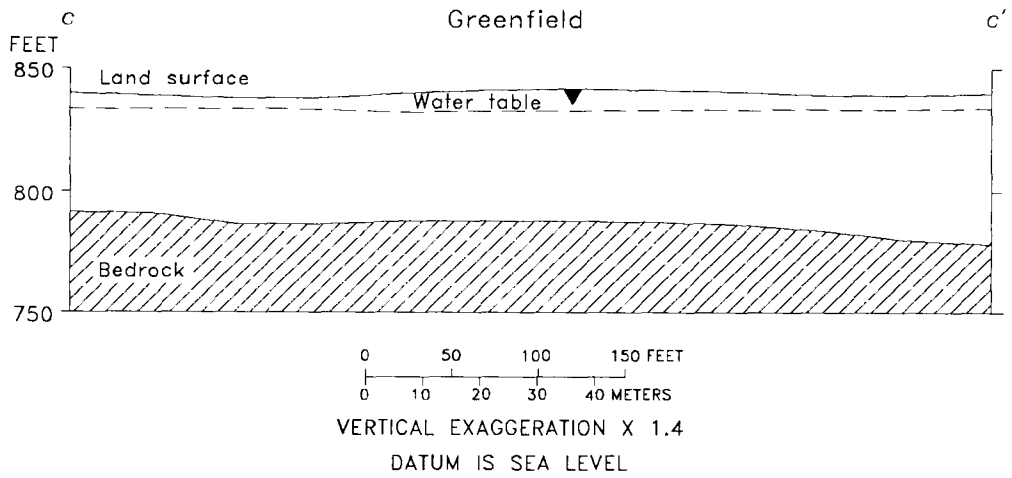
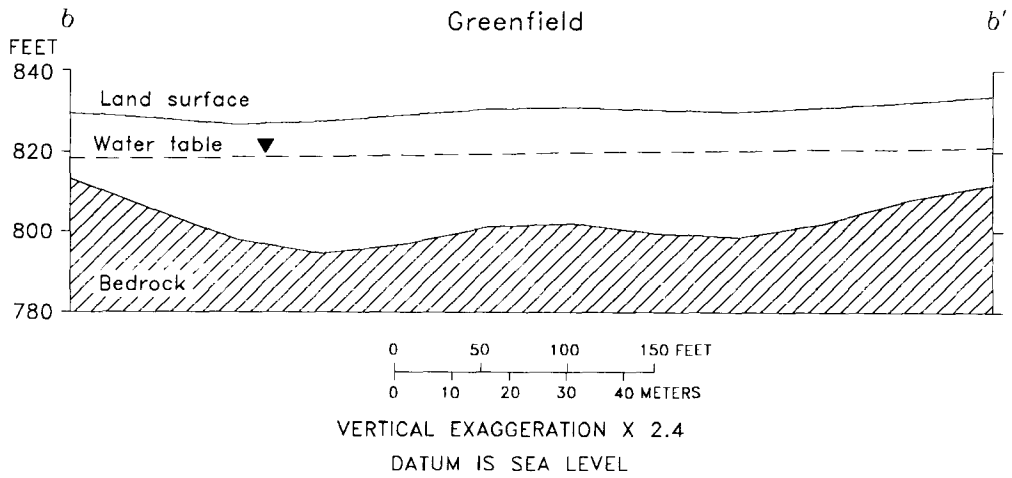
Appendix C10. Geohydrologic sections interpreted from seismic-refraction data for Goffstown lines b-b', c-c', and d-d' (locations shown on plate 3).



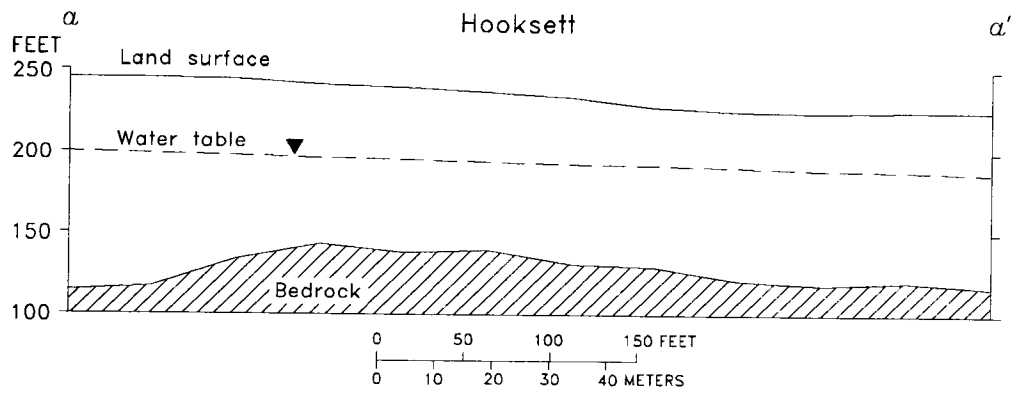
Appendix C11. Geohydrologic sections interpreted from seismic-refraction data for Goffstown lines e-e', f-f', and g-g' (locations shown on plate 3).



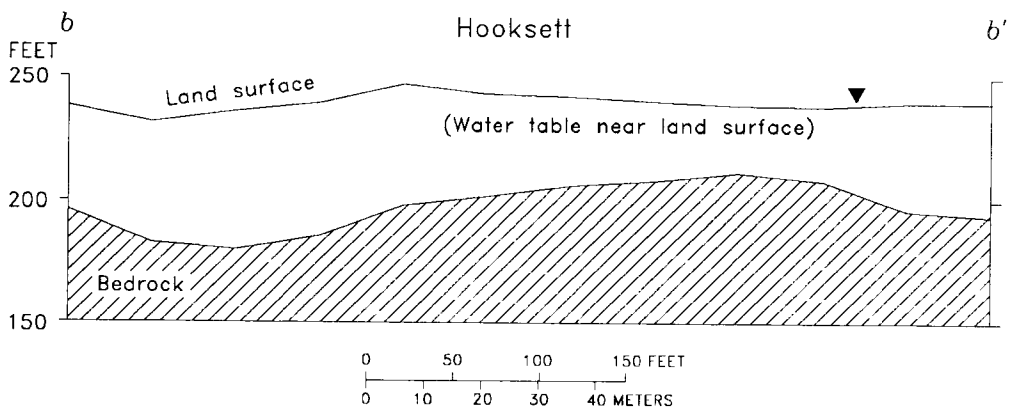
Appendix C12. Geohydrologic sections interpreted from seismic-refraction data for Goffstown lines h-h' and i-i' (locations shown on plate 3) and Greenfield line a-a' (location shown on plate 2).



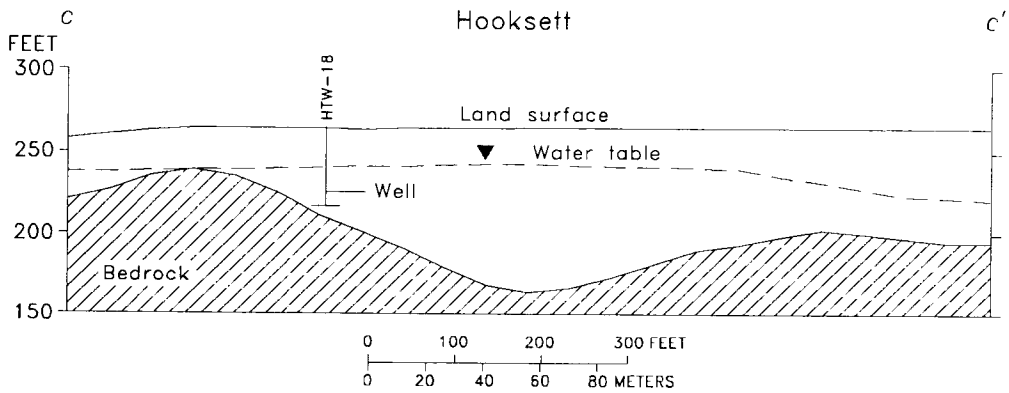
Appendix C13. Geohydrologic sections interpreted from seismic-refraction data for Greenfield lines b-b', c-c', and d-d' (locations shown on plate 2).



VERTICAL EXAGGERATION X 0.9  
 DATUM IS SEA LEVEL



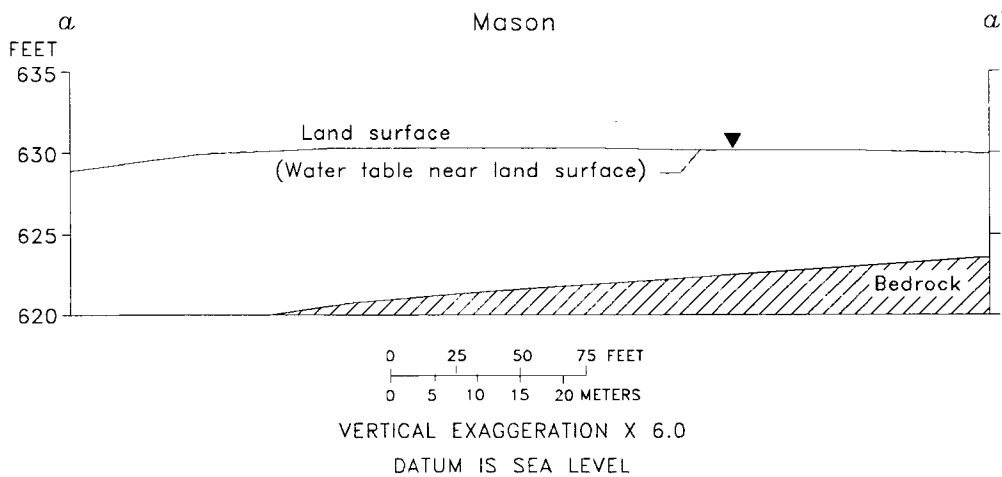
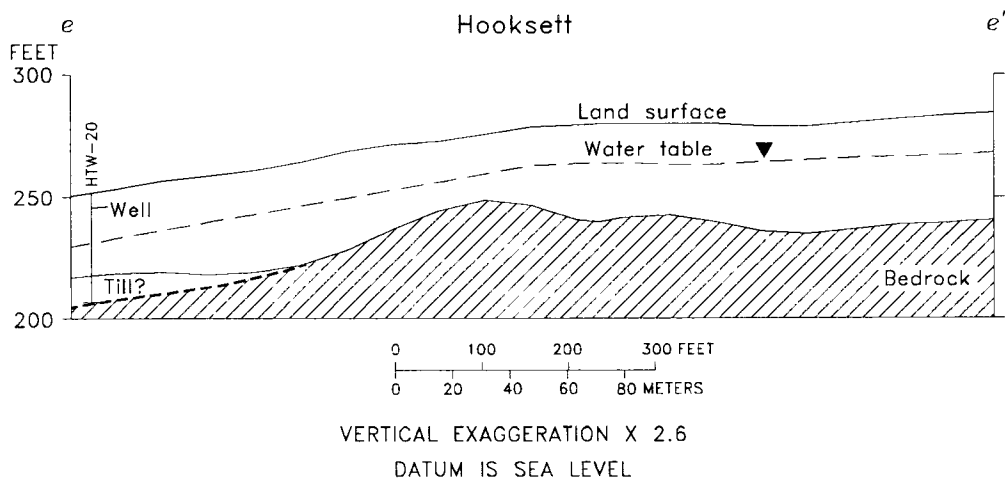
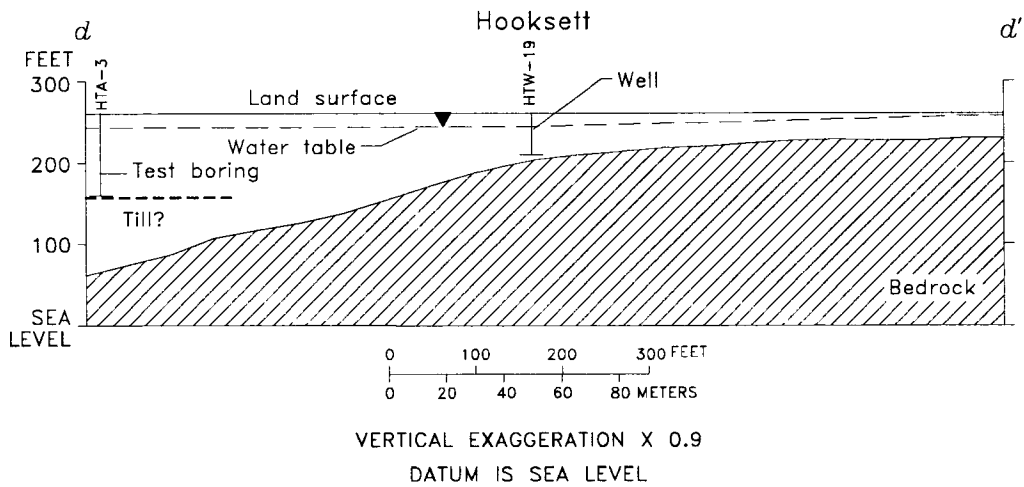
VERTICAL EXAGGERATION X 1.4  
 DATUM IS SEA LEVEL



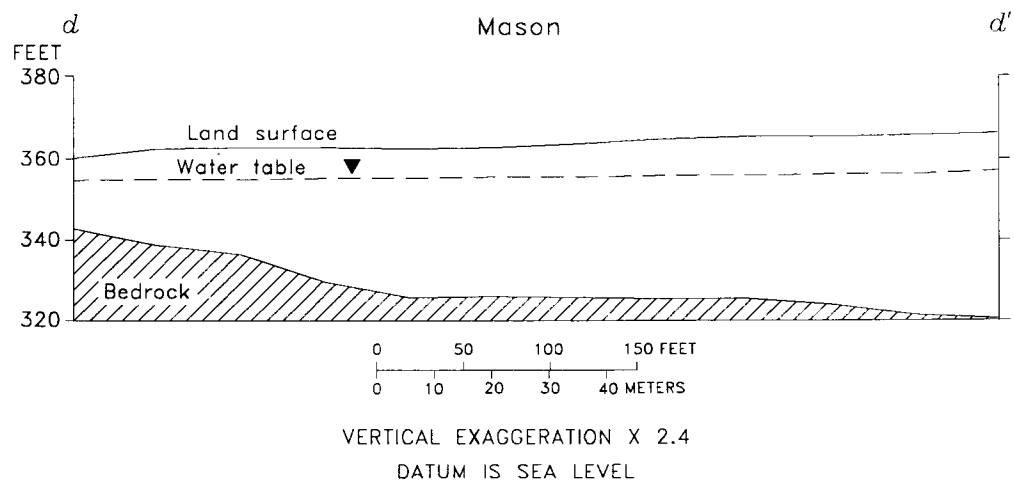
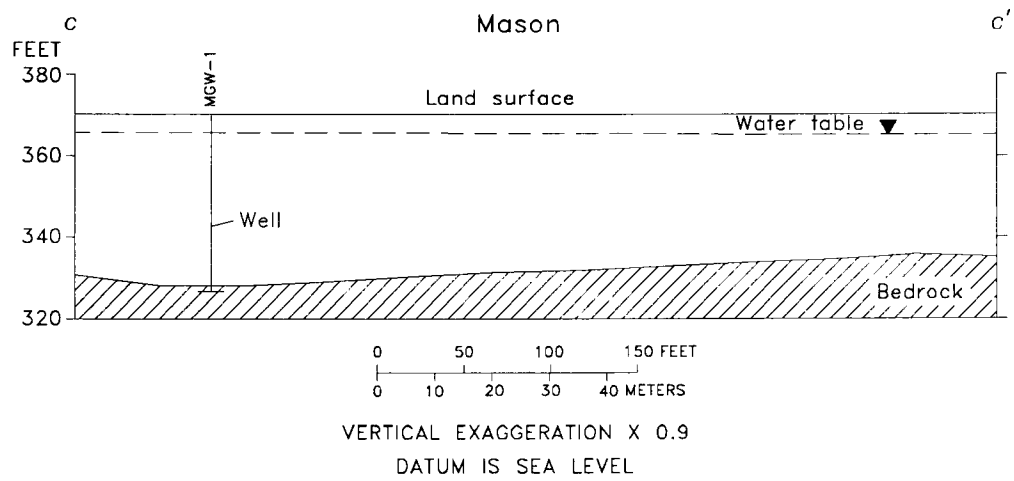
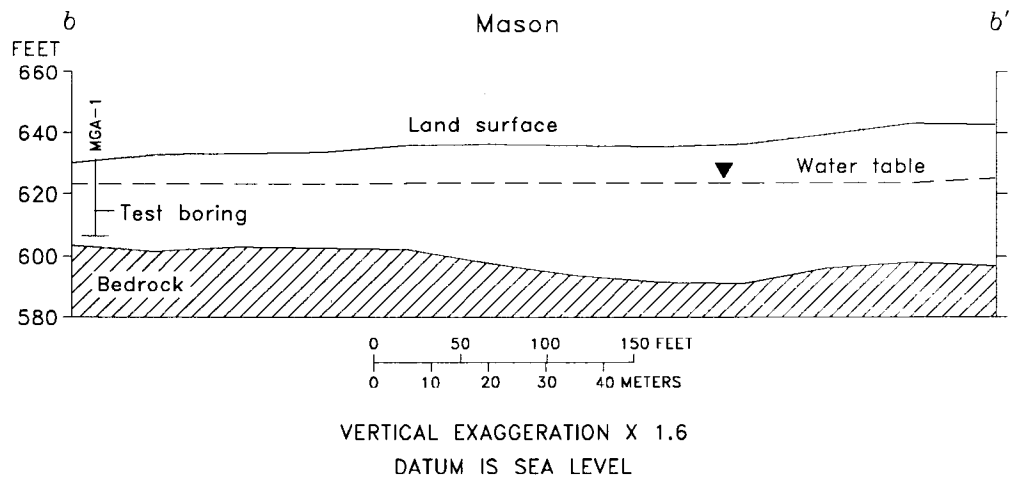
VERTICAL EXAGGERATION X 1.9  
 DATUM IS SEA LEVEL

Appendix C14. Geohydrologic sections interpreted from seismic-refraction data for Hooksett lines a-a', b-b', and c-c' (locations shown on plate 4).

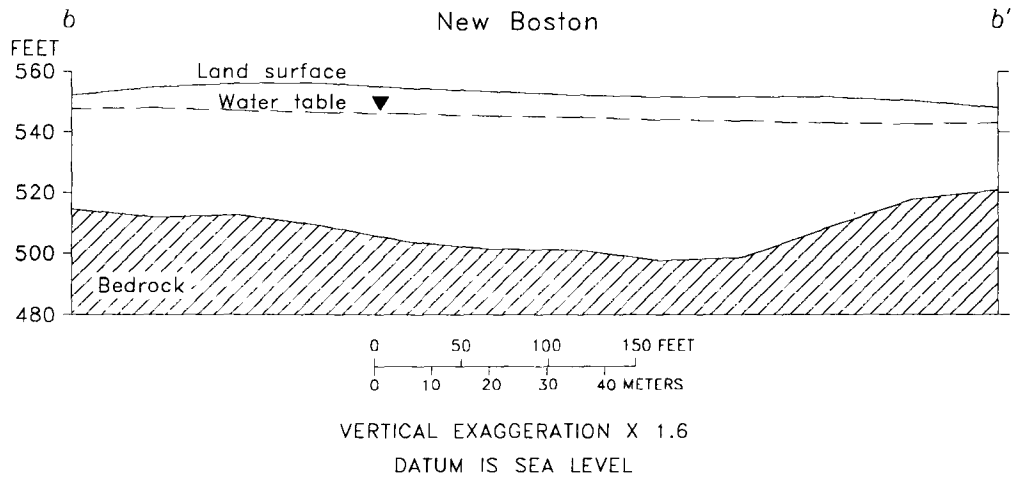
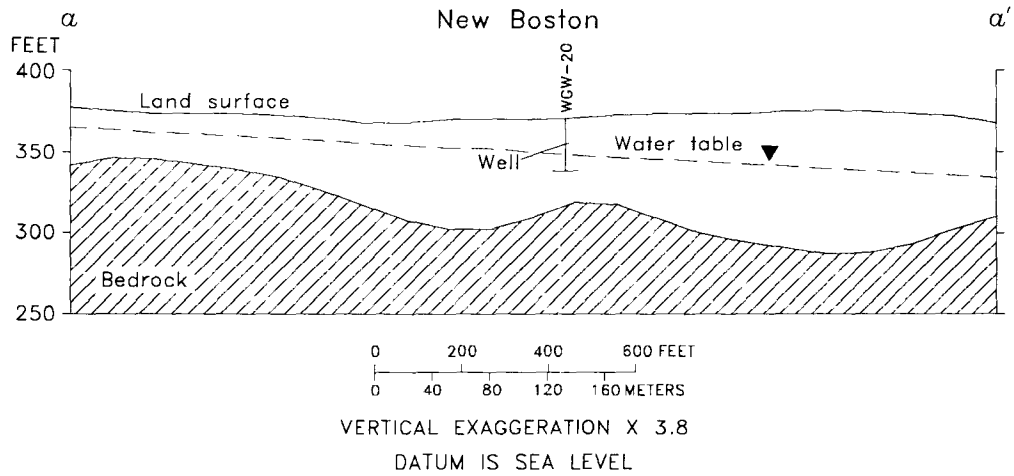
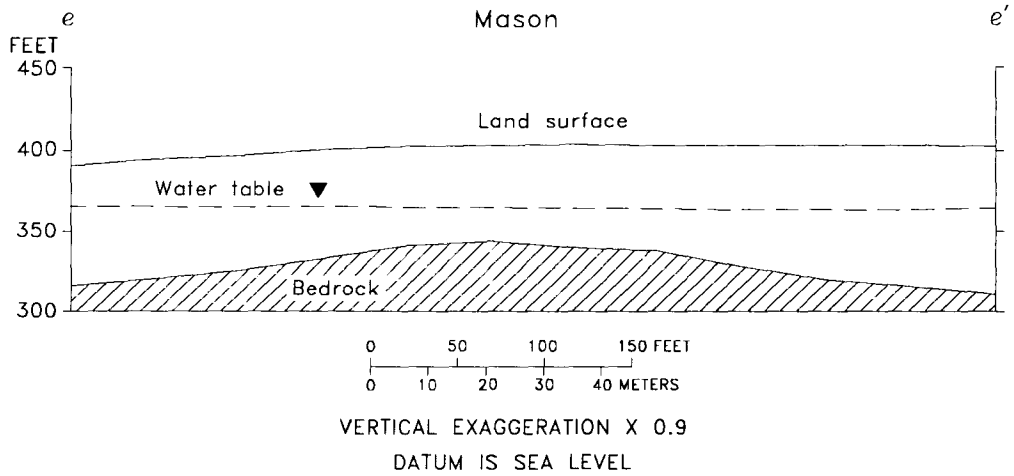




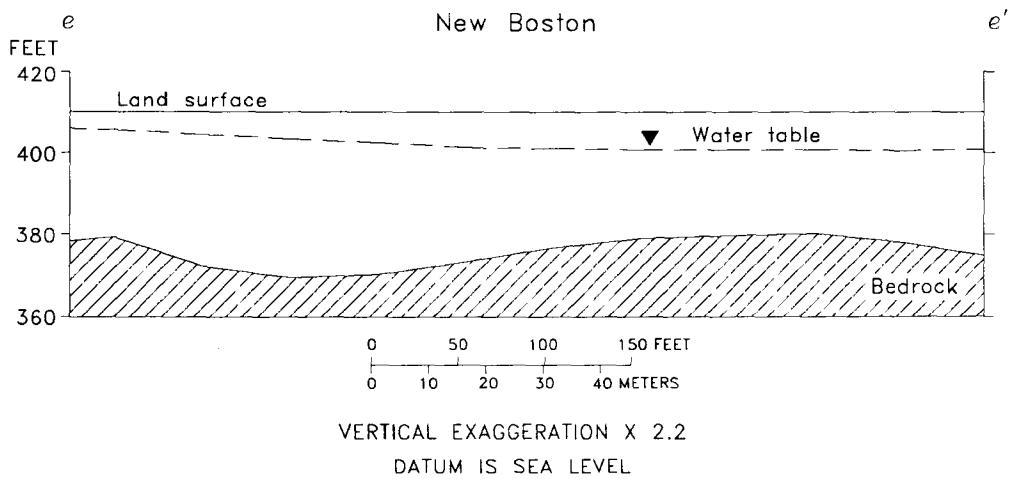
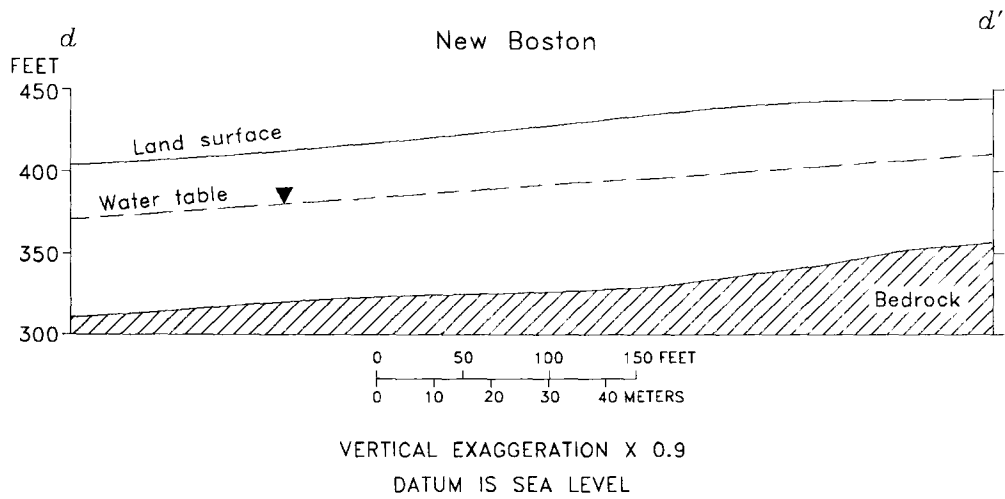
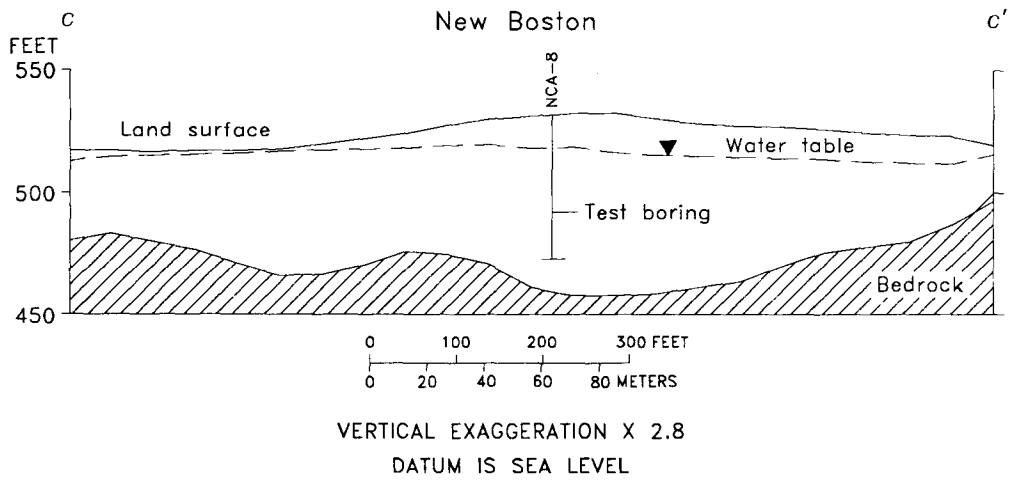
Appendix C15. Geohydrologic sections interpreted from seismic-refraction data for Hooksett lines d-d' and e-e' (locations shown on plate 4) and Mason line a-a' (location shown on plate 1).



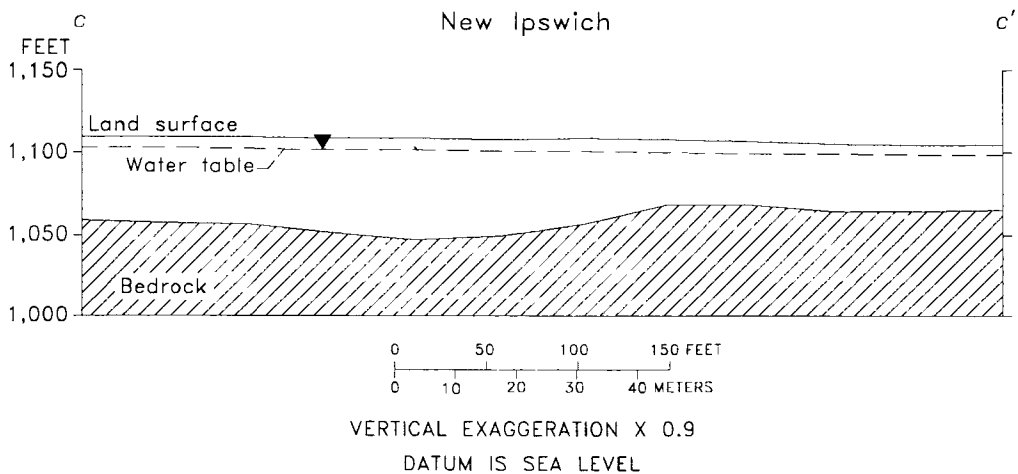
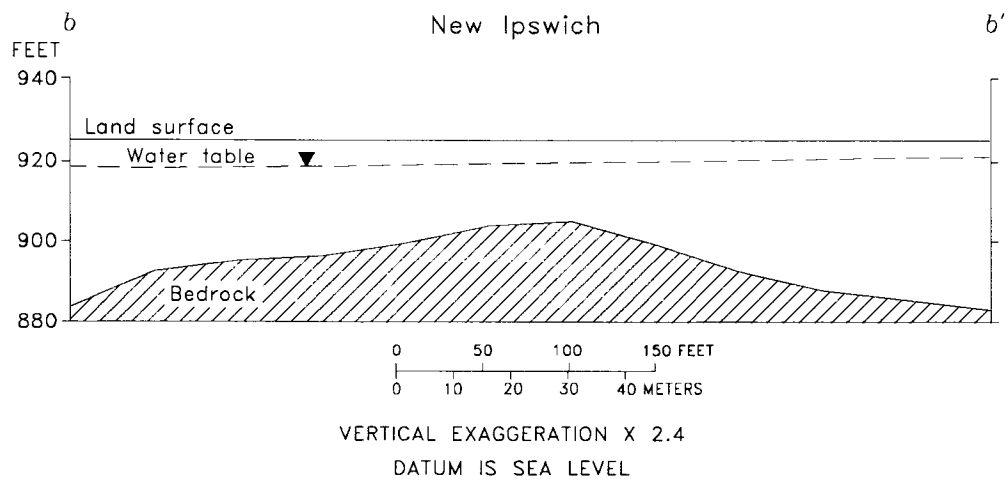
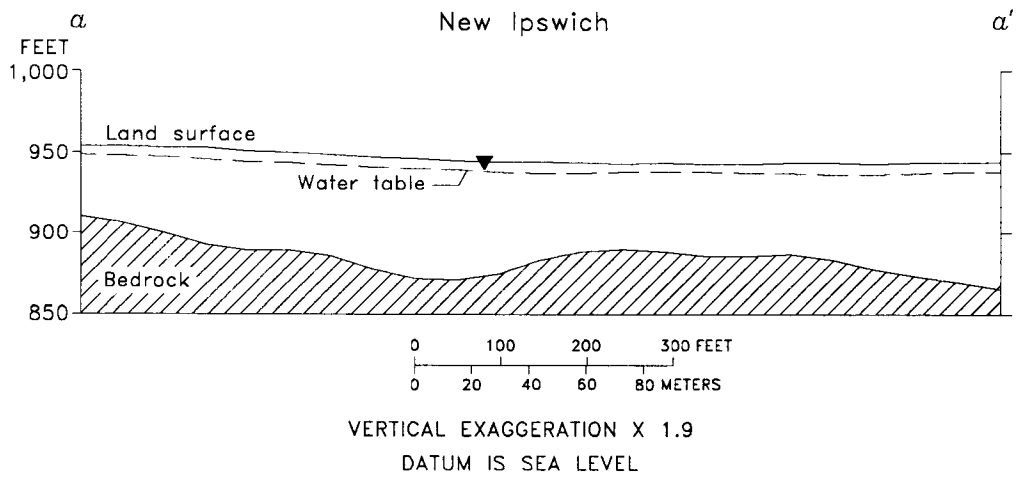
Appendix C16. Geohydrologic sections interpreted from seismic-refraction data for Mason lines b-b', c-c', and d-d' (locations shown on plate 1).



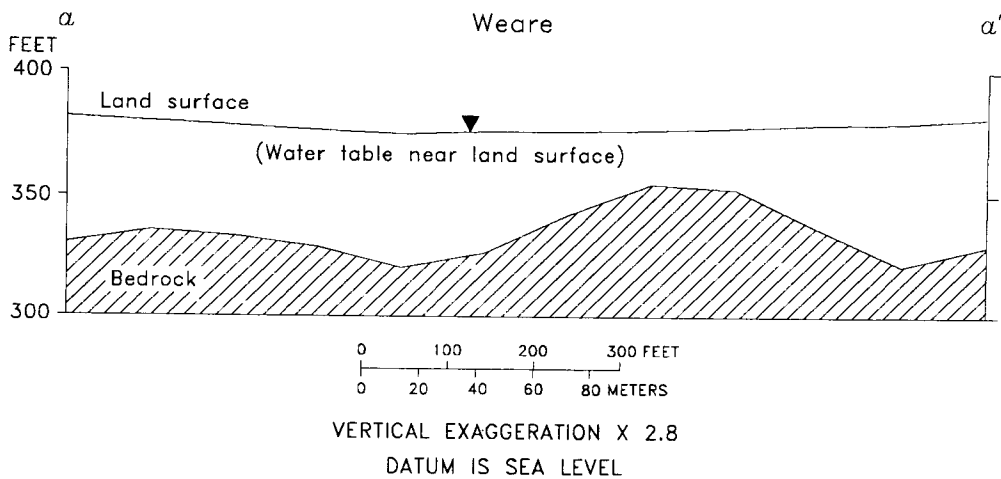
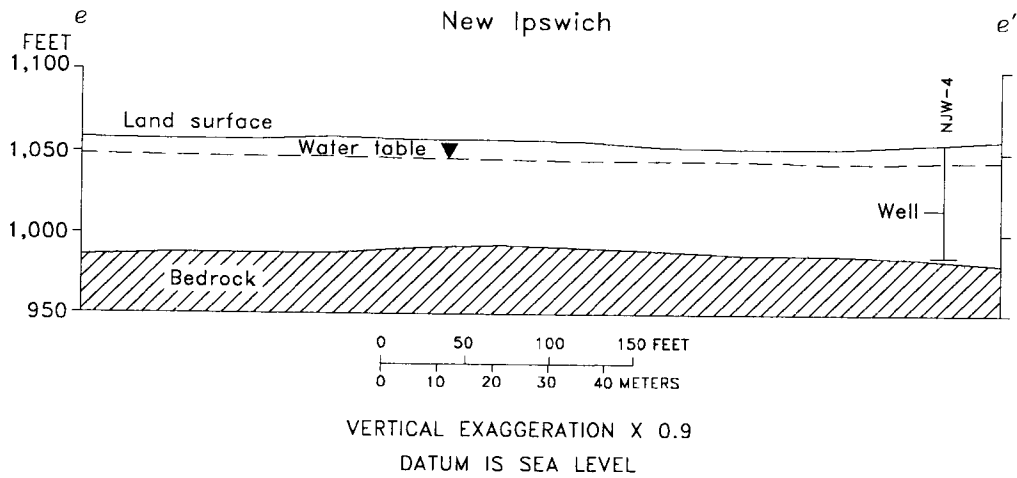
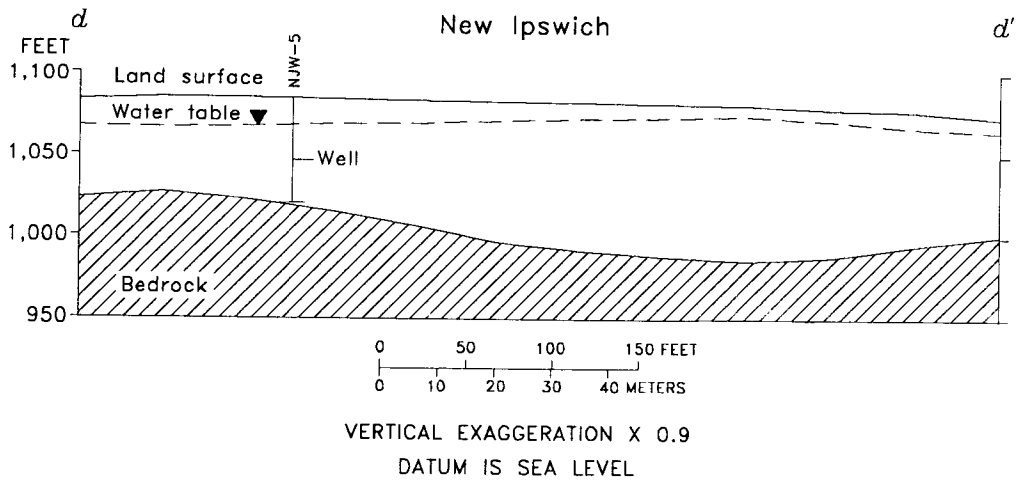
Appendix C17. Geohydrologic sections interpreted from seismic-refraction data for Mason line e-e' (location shown on plate 1) and New Boston lines a-a' and b-b' (locations shown on plates 3 and 2, respectively).



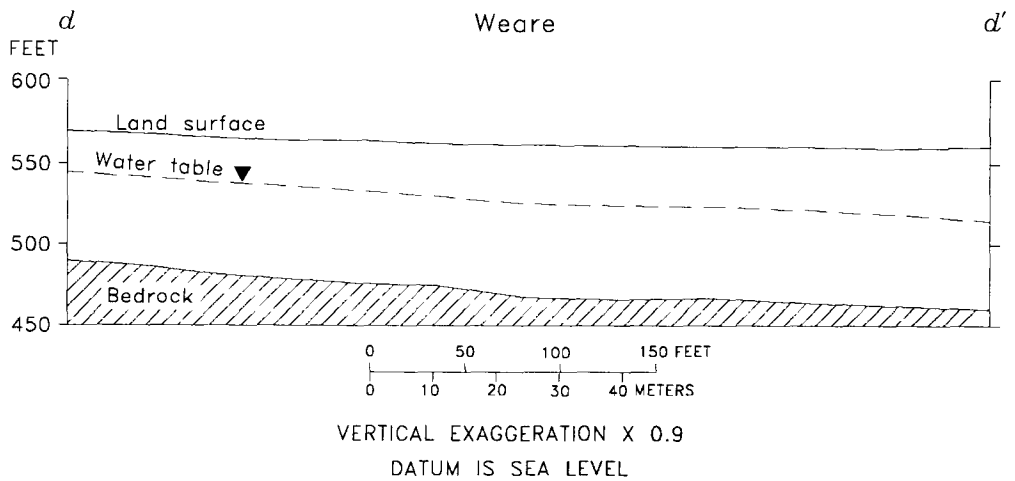
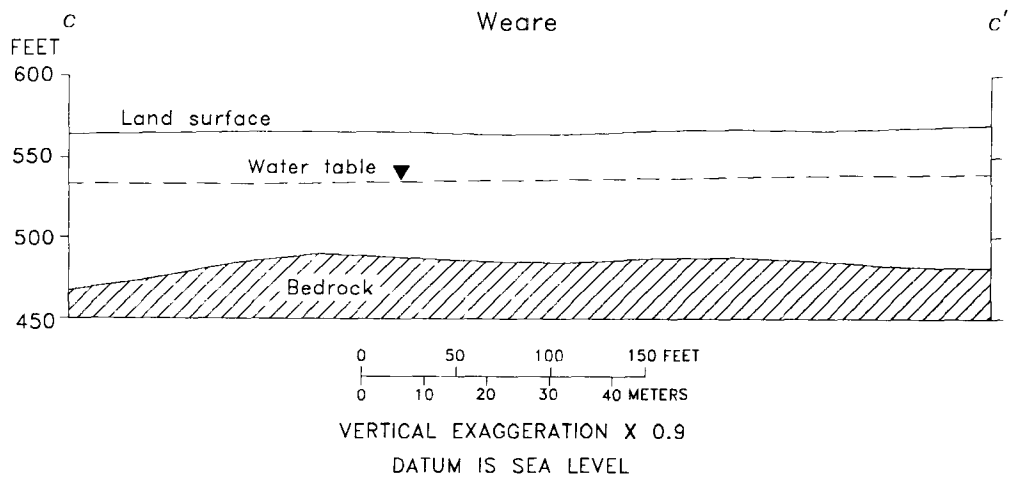
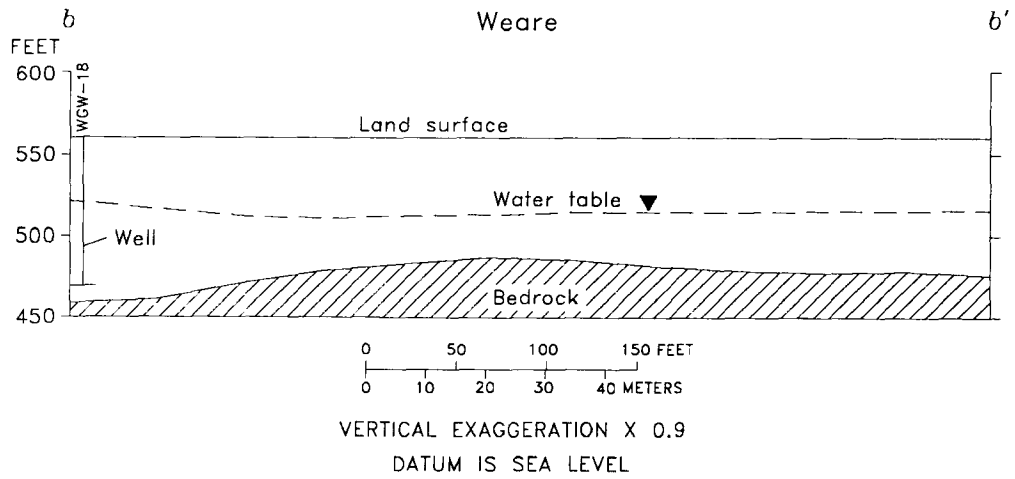
Appendix C18. Geohydrologic sections interpreted from seismic-refraction data for New Boston lines c-c' (location shown on plate 2), d-d' and e-e' (locations shown on plate 3).



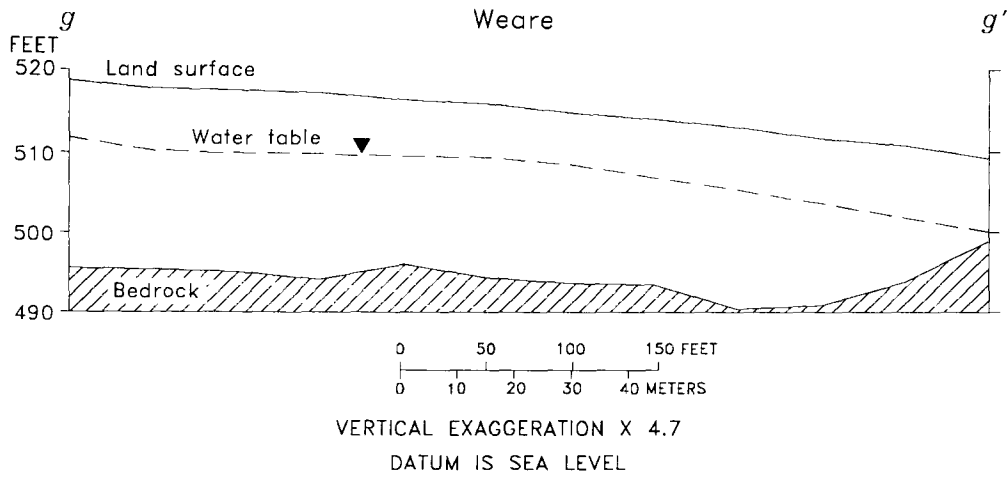
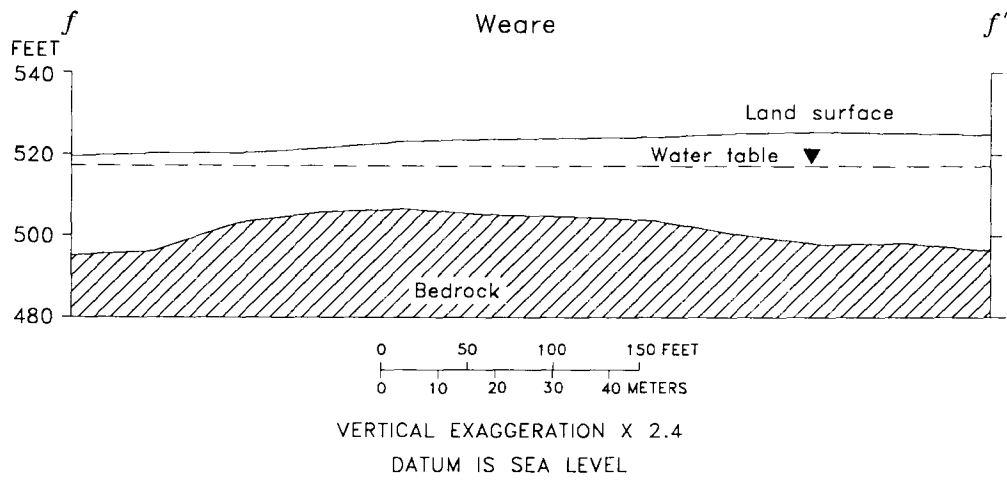
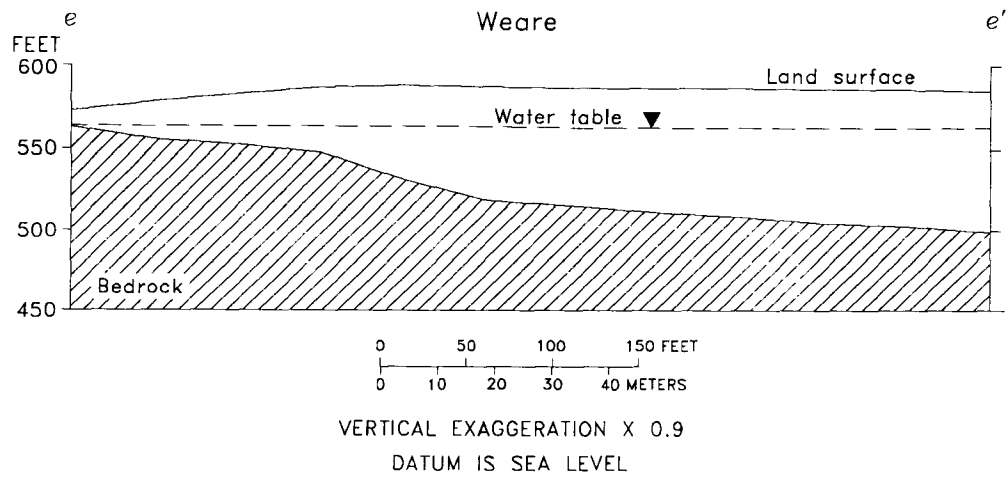
Appendix C19. Geohydrologic sections interpreted from seismic-refraction data for New Ipswich lines a-a', b-b', and c-c' (locations shown on plate 1).



Appendix C20. Geohydrologic sections interpreted from seismic-refraction data for New Ipswich lines d-d' and e-e' (locations shown on plate 1) and Weare line a-a' (location shown on plate 3).

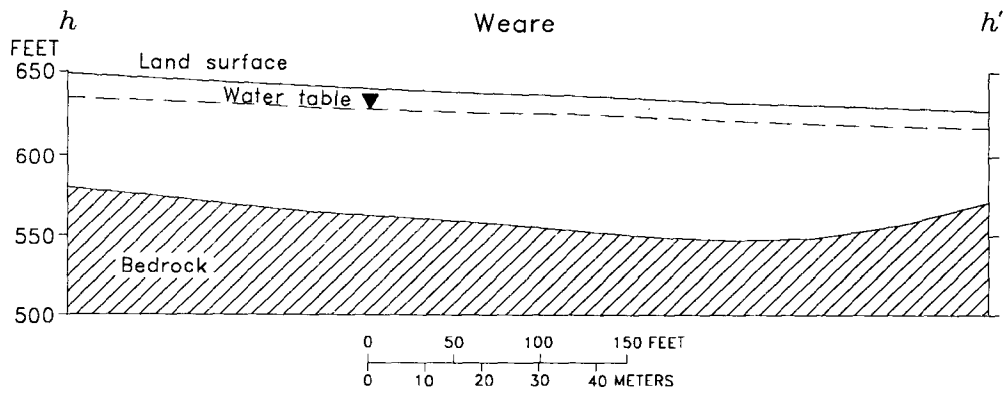


Appendix C21. Geohydrologic sections interpreted from seismic-refraction data for Weare lines b-b', c-c', and d-d' (locations shown on plate 2).

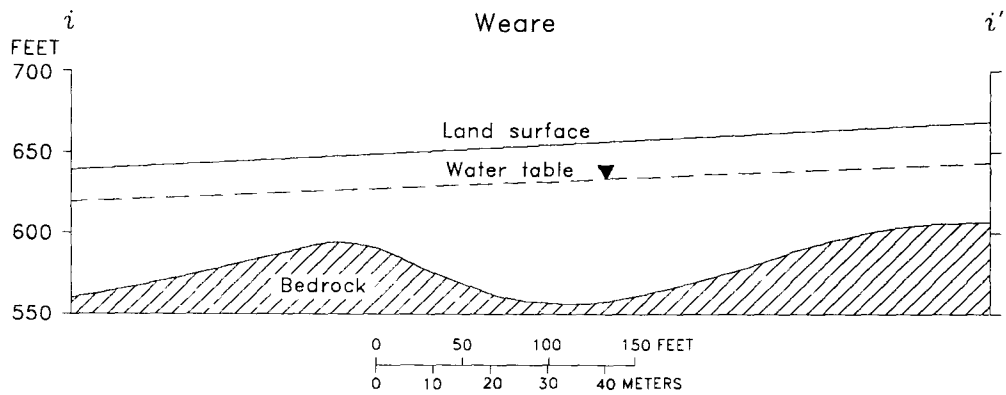


Appendix C22. Geohydrologic sections interpreted from seismic-refraction data for Weare lines e-e', f-f', and g-g' (locations shown on plate 2).

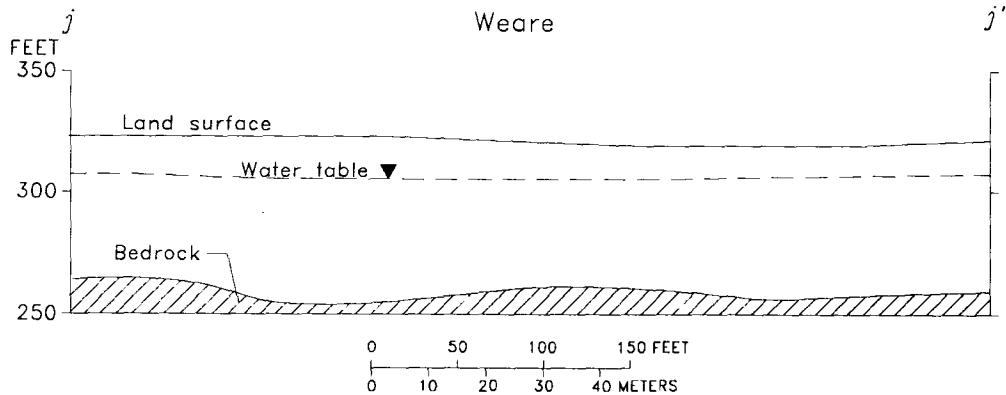




VERTICAL EXAGGERATION X 0.9  
DATUM IS SEA LEVEL

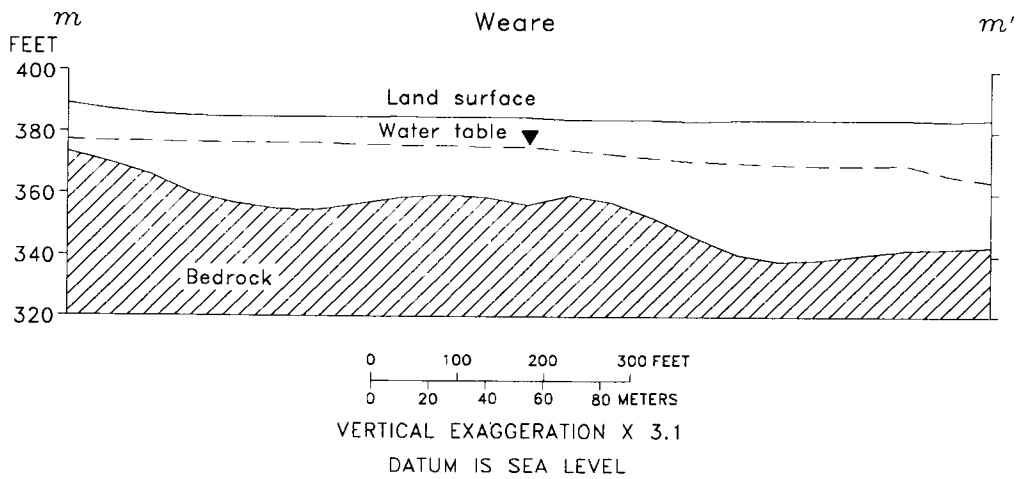
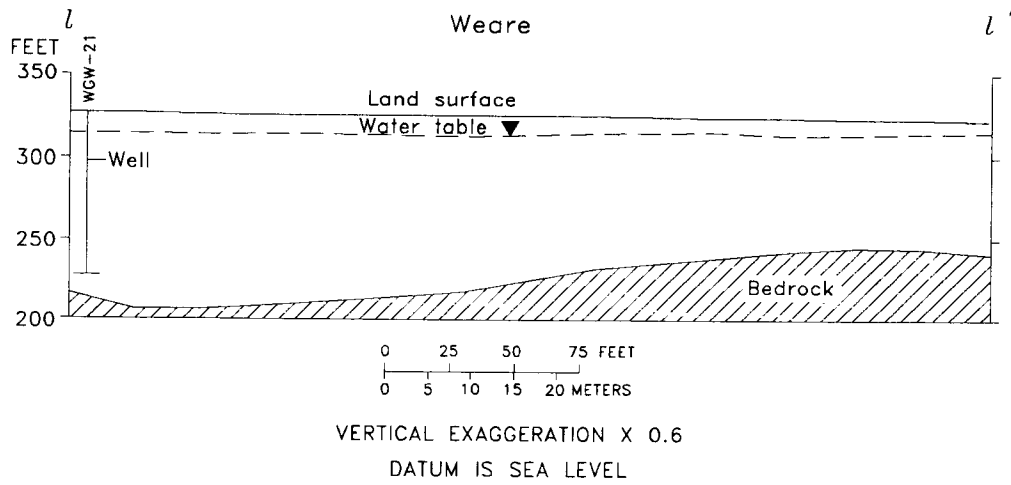
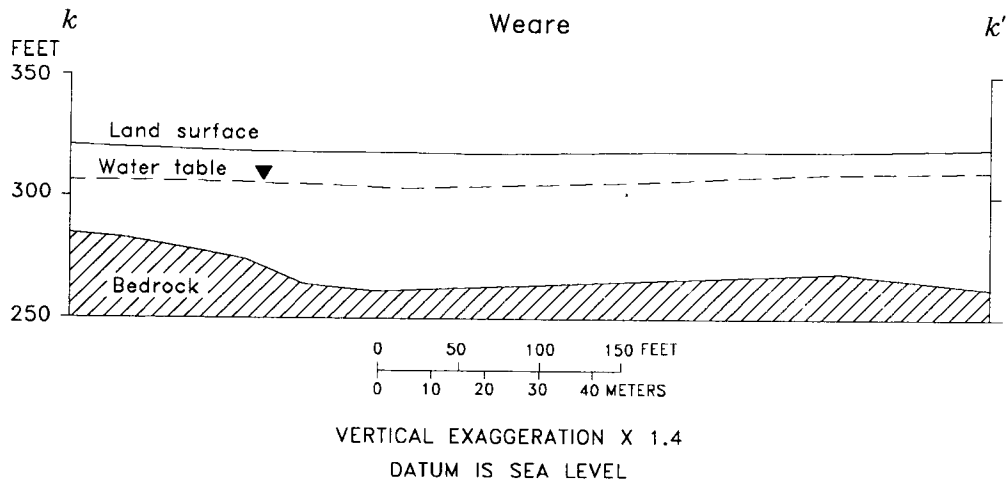


VERTICAL EXAGGERATION X 0.9  
DATUM IS SEA LEVEL

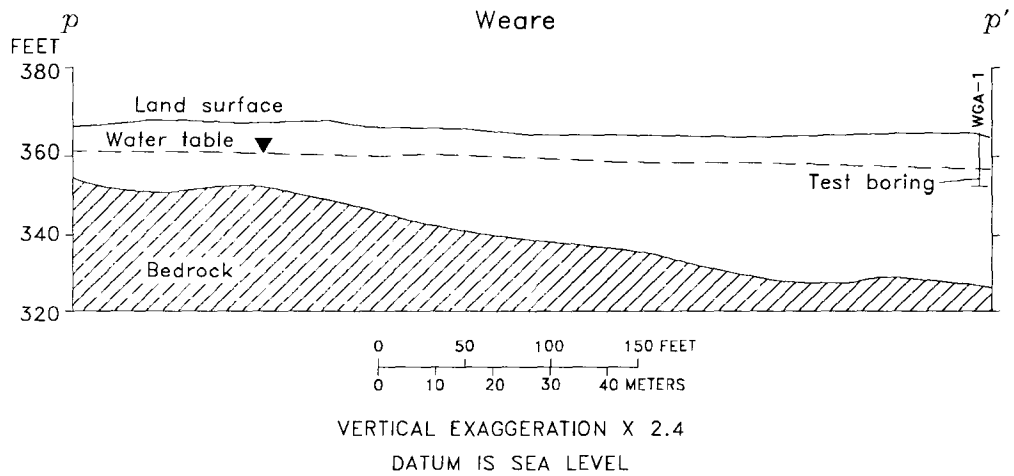
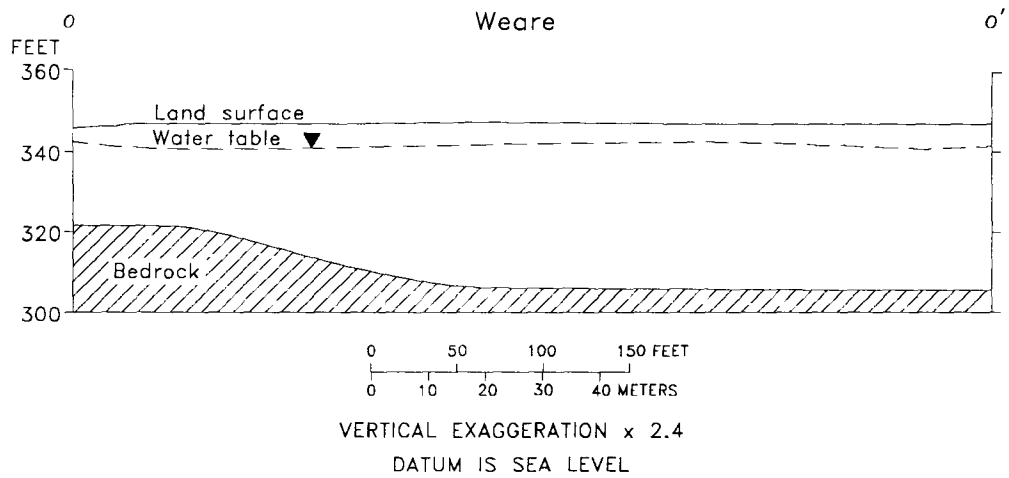
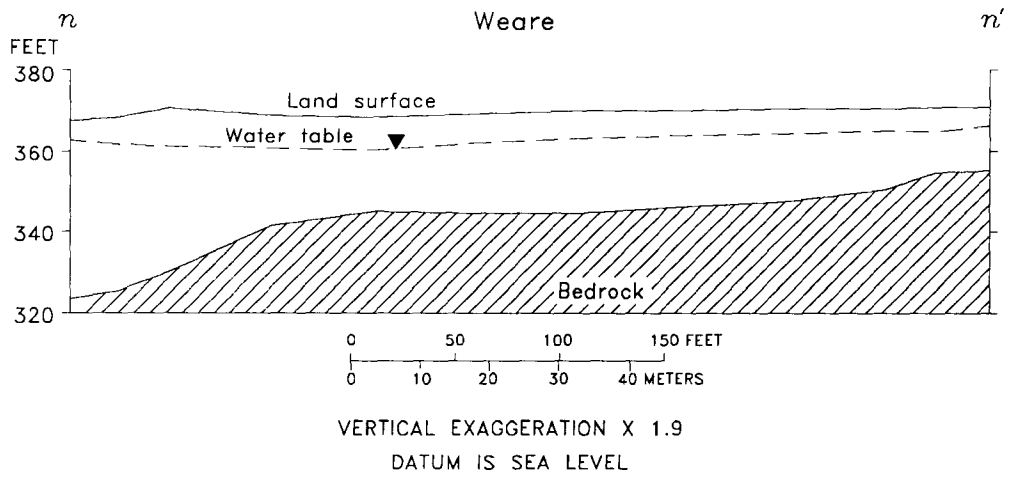


VERTICAL EXAGGERATION X 1.4  
DATUM IS SEA LEVEL

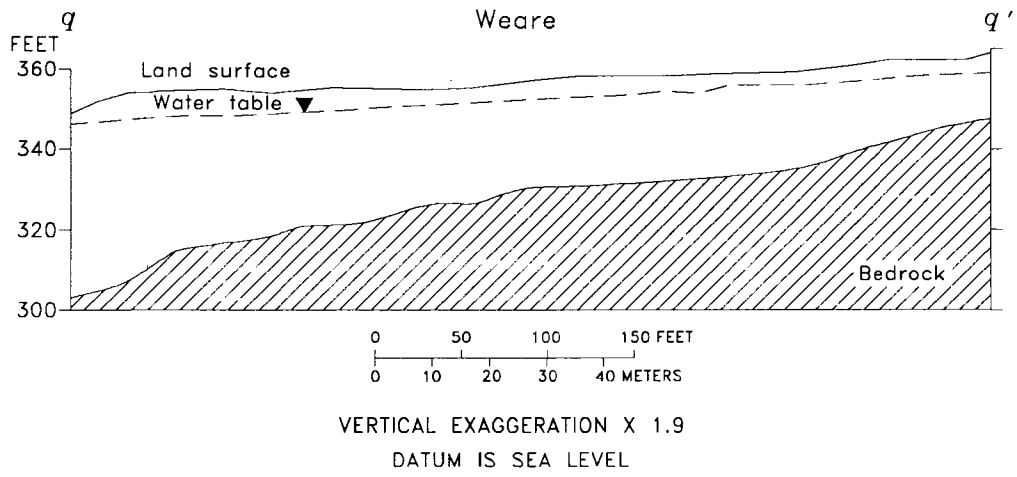
Appendix C23. Geohydrologic sections interpreted from seismic-refraction data for Weare lines h-h', i-i', (locations shown on plate 2) and j-j' (location shown on plate 3).



Appendix C24. Geohydrologic sections interpreted from seismic-refraction data for Weare lines k-k', l-l', and m-m' (locations shown on plate 3).



Appendix C25. Geohydrologic sections interpreted from seismic-refraction data for Weare lines n-n', o-o', and p-p' (locations shown on plate 3).



Appendix C26. Geohydrologic sections interpreted from seismic-refraction data for Weare line  $q-q'$  (location shown on plate 3).

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## APPENDIX D

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Appendix D. Low-flow streamflow measurements at miscellaneous sites  
 [ft<sup>3</sup>/s, cubic feet per second; ft, feet; mi, mile; Lat, latitude; long, longitude]

| Stream                    | Tributary to    | Location   | Informal number | Measurements        |                                 |
|---------------------------|-----------------|--|-----------------|---------------------|---------------------------------|
|                           |                 |  |                 | Date                | Dis-charge (ft <sup>3</sup> /s) |
| Merrimack River Basin     |                 |  |                 |                     |                                 |
| Brickyard Brook           | Merrimack River | Lat 43°05'23", long 71°28'06", Hillsborough County, Hydrologic Unit 01070002, 50 ft downstream of bridge at State Highway 3A, 0.38 mi northeast of Hooksett Tollgate on Interstate Highway 93, 0.5 mi southwest of Hooksett, N.H.                                    | 1               | 10-06-88<br>9-07-89 | 0.15<br>.38                     |
| Merrimack River Tributary | Merrimack River | Lat 43°03'27", long 71°28'05", Hillsborough County, Hydrologic Unit 01070002, upstream of culvert at State Highway 3A, 0.23 mi south of intersection with Cross Road, 1.4 mi southwest of Hooksett Tollgate on Interstate Highway 93, 2.1 mi south of Hooksett, N.H. | 2               | 10-06-88<br>9-07-89 | .01<br>.05                      |
| Peters Brook              | Merrimack River | Lat 43°03'54", long 71°26'47", Hillsborough County, Hydrologic Unit 01070002, downstream of culvert at U.S. Highway 3, 1.0 mi above mouth, 0.9 mi northwest of intersection with U.S. Highway 3, 2.3 mi southeast of Hooksett, N.H.                                  | 3               | 10-06-88<br>9-07-89 | .84<br>.86                      |
| Peters Brook              | Merrimack River | Lat 43°03'52", long 71°27'38", Hillsborough County, Hydrologic Unit 01070002, at old bridge site 200 ft upstream from concrete plant, 700 ft above mouth, 0.9 mi downstream of intersection with U.S. Highway Route 3, 2.0 mi south of Hooksett, N.H.                | 4               | 10-06-88<br>9-07-89 | 2.15<br>1.33                    |
| Dalton Brook              | Merrimack River | Lat 43°03'03", long 71°26'48", Hillsborough County, Hydrologic Unit 01070002, at power line crossing 0.5 mi above mouth, 0.28 mi north of Martin Cemetery, 0.42 mi west of U.S. Highway 3, 3.3 mi southeast of Hooksett, N.H.  | 5               | 10-06-88<br>9-07-89 | .04<br>.44                      |
| Messer Brook              | Merrimack River | Lat 43°02'41", long 71°27'02", Hillsborough County, Hydrologic Unit 01070002, 100 downstream from bridge at Martins Ferry Road, 100 ft east of intersection with River Road, 0.7 mi west of State Highway 3/28, 3.6 mi southeast of Hooksett, N.H.                   | 6               | 10-06-88            | .65                             |
| Black Brook               | Merrimack River | Lat 43°00'37", long 71°28'44", Hillsborough County, Hydrologic Unit 01070002, 40 ft downstream of bridge at Front Street, 250 ft south of intersection with Dunbarton Road, 700 ft above mouth, 1 mi northwest of Manchester, N.H.                                   | 7               | 10-06-88            | 1.87                            |
| Piscataquog River         | Merrimack River | Lat 43°06'35", Long 71°45'03", Hillsborough County, Hydrologic Unit 01070002, 10 ft downstream from bridge at State Highway 114, 1.2 mi east of Weare Reservoir, 0.9 mi north-west of intersection of State Highway 77, 1.4 mi northwest of Weare, N.H.              | 8               | 9-07-89             | 3.08                            |

## Appendix D. Low-flow streamflow measurements at miscellaneous sites--Continued

| Stream                                     | Tributary to                   | Location  | Informal number | Measurements        |                                 |
|--|--------------------------------|---|-----------------|---------------------|---------------------------------|
|  |                                |   |                 | Date                | Dis-charge (ft <sup>3</sup> /s) |
| Merrimack River Basin                      |                                |   |                 |                     |                                 |
| Piscataquog River                          | Merrimack River                | Lat 43°06'43", long 71°43'25", Hillsborough County, Hydrologic Unit 01070002, 200 ft downstream from bridge at Barnard Hill Road, 0.5 mi southwest of intersection of State Highway 77, 1.3 mi east of Chase Village, 1.2 mi northeast of Weare, N.H.         | 9               | 9-07-89             | 5.43                            |
| <sup>1</sup> 01090800<br>Piscataquog River | Merrimack River                | Lat 43°05'29", long 71°39'36", Hillsborough County, Hydrologic Unit 01070002, on right bank 500 ft downstream from Everett Dam and 1.4 mi southeast of East Weare.  | 10              | 9-06-89             | 8.2                             |
| Piscataquog River                          | Merrimack River                | Lat 43°04'58", long 71°38'56", Hillsborough County, Hydrologic Unit 01070002, 500 ft downstream from bridge at River Road, 0.7 mi below Everett Lake, 3.8 mi southeast of Weare, N.H.   | 11              | 9-06-89             | 7.38                            |
| Piscataquog River                          | Merrimack River                | Lat 43°03'37", long 71°39'07", Hillsborough County, Hydrologic Unit 01070002, 0.3 mi upstream of bridge at River Road, 2.3 mi below Everett Lake, 4.6 mi southeast of Weare, N.H.   | 12              | 9-06-89             | 7.71                            |
| Piscataquog River                          | Merrimack River                | Lat 43°01'58", long 71°38'48", Hillsborough County, Hydrologic Unit 01070002, upstream of bridge at old State Highway 114, 100 ft downstream of dam at Riverdale, 250 ft west of intersection with River Road, 6.1 mi southeast of Weare, N.H.                | 13              | 3-24-89<br>9-06-89  | 52.8<br>8.51                    |
| Gorham Brook                               | Piscataquog River              | Lat 43°00'28", long 71°37'47", Hillsborough County, Hydrologic Unit 01070002, 10 ft below culvert at State Highway 114 just above confluence with Piscataquog River, 500 ft east of intersection with Parker Rd, 1.5 mi west of Goffstown, N.H.               | 14              | 3-24-89<br>9-06-89  | 5.69<br>.44                     |
| Piscataquog River                          | Piscataquog River              | Lat 43°01'26", long 71°37'43", Hillsborough County, Hydrologic Unit 01070002, 0.25 mi downstream of bridge at Parker Road, 250 ft downstream of confluence with Gorham Brook, 1.5 mi west of Goffstown, N.H.  | 15              | 3-24-89<br>10-06-88 | 62.2<br>8.93                    |
| South Branch Piscataquog River             | Piscataquog River              | Lat 42°58'28", long 71°47'22", Hillsborough County, Hydrologic Unit 01070002, 25 ft below bridge at Journey's End Road, 0.15 mi northeast of intersection with Francestown Turnpike, 1.4 mi southeast of Francestown, N.H.                                    | 16              | 10-07-88<br>9-06-89 | 1.74<br>1.36                    |
| Cold Brook                                 | South Branch Piscataquog River | Lat 43°56'07", long 71°44'29", Hillsborough County, Hydrologic Unit 01070002, 0.2 mi upstream from bridge at Mountain Road, 200 ft northwest of Wilton Road, 0.3 mi southeast of intersection with Francestown Turnpike, 3.7 mi southwest of New Boston, N.H. | 17              | 10-07-88            | .79                             |

## Appendix D. Low-flow streamflow measurements at miscellaneous sites--Continued

| Stream   | Tributary to                   | Location  | Informal number | Measurements        |                                 |
|--|--------------------------------|---|-----------------|---------------------|---------------------------------|
|  |                                |   |                 | Date                | Dis-charge (ft <sup>3</sup> /s) |
| Merrimack River Basin                          |                                |   |                 |                     |                                 |
| South Branch Piscataquog River Tributary No. 2 | South Branch Piscataquog River | Lat 43°56'51", long 71°44'18", Hillsborough County, Hydrologic Unit 01070002, downstream side of culvert at Butterfield Mill Road, 0.9 mi west of intersection with Lyndeborough Road, 0.34 mi east of Lyndeborough town line, 3.0 mi south-west of New Boston, N.H.      | 18              | 10-07-88            | .015                            |
| South Branch Piscataquog River Tributary No. 3 | South Branch Piscataquog River | Lat 42°56'51", long 71°44'08", Hillsborough County, Hydrologic Unit 01070002, upstream of culvert at Butterfield Mill road, 0.2 mi above mouth, 0.8 mi west of intersection with Lyndeboro Road, 0.5 mi east of Lyndeboro town line, 2.9 mi southwest of New Boston, N.H. | 19              | 10-07-88            | .22                             |
| Meadow Brook                                   | South Branch Piscataquog River | Lat 42°57'27", long 71°42'29", Hillsborough County, Hydrologic Unit 01070002, 50 ft above mouth off Lyndeboro Road, 0.6 mi south-west of intersection with State Highway 13, 1.5 mi southwest of New Boston, N.H.   | 20              | 10-07-88            | .10                             |
| South Branch Piscataquog River                 | South Branch Piscataquog River | Lat 42°57'29", long 71°42'33", Hillsborough County, Hydrologic Unit 01070002, downstream of bridge at Lyndeboro Road, 0.66 mi west of the intersection with State Highway 13, 1.5 mi southwest of south of New Boston, N.H.   | 21              | 10-06-88<br>9-09-89 | 8.60<br>6.13                    |
| South Branch Piscataquog River                 | South Branch Piscataquog River | Lat 42°58'10", long 71°41'52", Hillsborough County, Hydrologic Unit 01070002, 100 ft downstream of bridge at State Highway 13, 0.6 mi north of intersection with Lyndeborough Road, 0.5 mi south of New Boston, N.H.  | 22              | 9-09-89             | 8.30                            |
| South Branch Piscataquog River                 | South Branch Piscataquog River | Lat 43°00'00", long 71°40'13", Hillsborough County, Hydrologic Unit 01070002, 0.4 mi upstream of bridge at Gregg Mill Road off State Highway 13, 2.0 mi northeast of New Boston, N.H.   | 23              | 10-06-88            | 8.80                            |
| South Branch Piscataquog River                 | Piscataquog River              | Lat 43°00'04", long 71°39'47", Hillsborough County, Hydrologic Unit 01070002, 400 ft upstream from bridge at Gregg Mill Road off State Highway 13, 700 ft upstream from confluence of Middle Branch Piscataquog River, 2.3 mi northeast of New Boston, N.H.               | 24              | 9-07-89             | 9.67                            |
| Middle Branch Piscataquog River                | Piscataquog River              | Lat 43°01'11", long 71°41'25", Hillsborough County, Hydrologic Unit 01070002, 50 ft downstream from bridge at State Highway 77, 400 ft northwest of Middle Branch Road, 0.38 mi from the New Boston-Weare town line, 3.0 mi north of New Boston, N.H.                     | 25              | 9-07-89             | 1.62                            |



## Appendix D. Low-flow streamflow measurements at miscellaneous sites--Continued

| Stream                                   | Tributary to                   | Location   | Informal number | Measurements   |                                 |
|--|--------------------------------|--|-----------------|--|---------------------------------|
|  |                                |  |                 | Date   | Dis-charge (ft <sup>3</sup> /s) |
| Merrimack River Basin                    |                                |  |                 |  |                                 |
| Middle Branch Piscataquog River          | Merrimack River                | Lat 43°00'21", long 71°39'52", Hillsborough County, Hydrologic Unit 01070002, 40 ft upstream from bridge at Riverdale road, 100 ft east of Gregg Mill Road, 0.35 mi upstream from confluence with South Branch Piscataquog River, 2.5 mi northeast of New Boston, N.H.         | 26              | 10-06-88   | 3.56                            |
| 01091000 South Branch Piscataquog River  | Piscataquog River              | Lat 43°00'49", long 71°38'31", Hillsborough County, Hydrologic Unit 01070002, on right bank 20 ft upstream from Highway bridge, 1.4 mi upstream from mouth, and 2.2 mi west of Goffstown, N.H.   | 27              | 10-06-88<br>3-24-89<br>4-26-89<br>9-06-89<br>9-14-89 | 12.8<br>66<br>166<br>9.9<br>9.9 |
| South Branch Piscataquog River Tributary | South Branch Piscataquog River | Lat 43°00'55", long 71°38'03", Hillsborough County, Hydrologic Unit 01070002, upstream side culvert at State Highway 13, 0.22 mi west of Goffstown-New Boston town line, 0.4 mi east of gaging station on South Branch Piscataquog River, 4.0 mi northeast of New Boston, N.H. | 28              | 3-24-89  | .19                             |
| Piscataquog River                        | Merrimack River                | Lat 43°01'21", long 71°37'13", Hillsborough County, Hydrologic Unit 01070002, 700 ft west of the Goffstown well field off State Highway 114, 500 ft downstream from the confluence of the South Branch Piscataquog River, 1 mi west of Goffstown, N.H.                         | 29              | 10-07-88<br>3-24-89<br>9-06-89                       | 21.7<br>137<br>24.2             |
| Piscataquog River                        | Merrimack River                | Lat 43°01'16", long 71°36'56", Hillsborough County, Hydrologic Unit 01070002, 250 ft downstream of Goffstown well field off State Highway 114, 0.3 mi downstream from confluence of the South Branch Piscataquog River, 0.8 mi west of Goffstown, N.H.                         | 30              | 4-28-89  | 281                             |
| Bog Brook                                | Merrimack River                | Lat 43°00'55", long 71°36'40", Hillsborough County, Hydrologic Unit 01070002, upstream from bridge at State Highway 13, 0.6 mi west of intersection with State Highway 114, 0.25 mi above mouth, 0.6 mi west of Goffstown, N.H.  | 31              | 9-24-89<br>9-06-89                                   | 5.3<br>.23                      |
| Bog Brook                                | Merrimack River                | Lat 43°01'04", long 71°36'27", Hillsborough County, Hydrologic Unit 01070002, immediately upstream from mouth, 0.36 mi west of State Highway 13 bridge over Piscataquog River, at Goffstown, N.H.  | 32              | 3-24-89  | 5.4                             |
| Whittle Brook                            | Merrimack River                | Lat 43°00'57", long 71°36'01", Hillsborough County, Hydrologic Unit 01070002, upstream from bridge at State Highway 13, 500 ft west of intersection of State Highway 114, 0.28 mi east of intersection of Bog Road, 1,000 ft above mouth, at Goffstown, N.H.                   | 33              | 3-24-89<br>9-06-89                                   | 1.1<br>.24                      |

## Appendix D. Low-flow streamflow measurements at miscellaneous sites--Continued

| Stream                                  | Tributary to      | Location  | Informal number | Measurements        |                                 |
|---|-------------------|---|-----------------|---------------------|---------------------------------|
|   |                   |   |                 | Date                | Dis-charge (ft <sup>3</sup> /s) |
| Merrimack River Basin                   |                   |   |                 |                     |                                 |
| Whittle Brook                           | Merrimack River   | Lat 43°01'02", long 71°36'11", Hillsborough County, Hydrologic Unit 01070002, immediately upstream of mouth 1,000 ft west of State Highway 13 bridge, over Piscataquog River, at Goffstown, N.H.  | 34              | 3-24-89             | 1.2                             |
| Piscataquog River Tributary             | Piscataquog River | Lat 43°01'16", long 71°36'08", Hillsborough County, Hydrologic Unit 01070002, upstream side culvert at State Highway 114, 100 ft west of First Avenue, 550 ft west of State Highway 13, at Goffstown, N.H.  | 35              | 3-24-89             | .20                             |
| <sup>1</sup> 01091500 Piscataquog River | Merrimack River   | Lat 43°00'58", long 71°33'03", Hillsborough County, Hydrologic Unit 01070002, 0.2 mi upstream from Harry Brook, 0.9 mi downstream from Glen Lake, and 2.5 mi east of Goffstown, N.H.  | 36              | 9-06-89             | 26.1                            |
| Piscataquog River                       | Merrimack River   | Lat 43°59'26", long 71°29'41", Hillsborough County, Hydrologic Unit 01070002, 700 ft downstream of Nazaire Biron Bridge, at Kelly Street 0.28 mi northeast of intersection with State Highway 114A, 1.5 mi above mouth, 1.6 mi west of Manchester, N.H. | 37              | 10-07-88<br>9-07-89 | 33.96<br>14.76                  |
| Bowman Brook                            | Merrimack River   | Lat 43°57'18", long 71°29'07", Hillsborough County, Hydrologic Unit 01070002, downstream side of culvert at State Route 101, 0.47 mi northwest of intersection with U.S. Highway 3, 1.3 mi east of Bedford, N.H.  | 38              | 10-07-88            | .02                             |
| Bowman Brook                            | Merrimack River   | Lat 43°57'17", long 71°28'25", Hillsborough County, Hydrologic Unit 01070002, downstream of culvert at Interstate Highway 293, immediately above mouth, 0.5 mi north of intersection with State Highway 101, 1.8 mi east of Bedford, N.H.               | 39              | 9-07-89             | 2.59                            |
| Maple Falls Brook                       | Clark Pond        | Lat 43°01'46", long 71°21'34", Hillsborough County, Hydrologic Unit 01070002, 300 ft upstream of State Highway 101 off Tower Hill Road, 0.5 mi below outlet of Tower Hill Pond, 1.9 mi northwest of Auburn, N.H.  | 40              | 9-06-89             | .27                             |
| Clark Pond Brook                        | Sucker Brook      | Lat 43°01'40", long 71°21'09", Hillsborough County, Hydrologic Unit 01070002, 300 ft downstream from Clark Pond outlet, upstream of Depot Road, 0.21 mi east of intersection with Hooksett Road, 1.1 mi north of Auburn, N.H.                           | 41              | 9-06-89             | .30                             |
| Cohas Brook                             | Merrimack River   | Lat 42°57'36", long 71°25'06", Hillsborough County, Hydrologic Unit 01070002, 20 ft downstream of bridge at State Highway 28A, 350 ft south of intersection with State Route 101, 2.8 mi southeast of Manchester, N.H.                                  | 42              | 9-06-89             | 5.67                            |

## Appendix D. Low-flow streamflow measurements at miscellaneous sites--Continued

| Stream                | Tributary to       | Location  | Informal number | Measurements        |                                 |
|-----------------------|--------------------|---|-----------------|---------------------|---------------------------------|
|                       |                    |   |                 | Date                | Dis-charge (ft <sup>3</sup> /s) |
| Merrimack River Basin |                    |   |                 |                     |                                 |
| Cohas Brook           | Merrimack River    | Lat 42°55'53", long 71°27'08", Hillsborough County, Hydrologic Unit 01070002, 250 ft downstream of dam at outlet of Pine Island Pond, upstream from bridge at Brown Avenue (Route 3A), 3.5 mi south of Manchester, N.H.   | 43              | 9-06-89             | 5.75                            |
| Sebbins Brook         | Pointer Club Brook | Lat 42°54'43", long 71°27'35", Hillsborough County, Hydrologic Unit 01070002, 40 ft downstream of culvert at private road crossing 500 ft above mouth, 100 ft west of intersection with U.S. Highway 3, 0.15 mi north of Merrimack, N.H. town line, 4.5 mi southeast of Bedford, N.H. | 44              | 10-07-89            | .92                             |
| Pointer Club Brook    | Merrimack River    | Lat 42°54'36", long 71°27'31", Hillsborough County, Hydrologic Unit 01070002, upstream side of culvert at U.S. Highway 3, at Merrimack-Bedford town line, 0.28 mi above mouth, 4.5 mi southeast of Bedford, N.H.  | 45              | 10-07-88<br>9-06-89 | 1.97<br>2.03                    |
| Furnace Brook         | Souhegan River     | Lat 42°46'21", long 71°52'33", Hillsborough County, Hydrologic Unit 01070002, 200 ft downstream from culvert at Appleton Road, 1.3 mi northwest of intersection with State Highway 123/124, 1.6 mi northwest of New Ipswich, N.H.   | 46              | 10-06-88            | .18                             |
| Furnace Brook         | Souhegan River     | Lat 42°46'12", long 71°52'08", Hillsborough County, Hydrologic Unit 01070002, 20 ft upstream of culvert at Appleton Road, 0.85 mi northwest of intersection with State Highway 123/124, 1.2 mi northwest of New Ipswich, N.H.   | 47              | 10-06-88<br>9-06-89 | .45<br>.38                      |
| Furnace Brook         | Souhegan River     | Lat 42°45'52", long 71°51'28", Hillsborough County, Hydrologic Unit 01070002, 20 ft upstream of bridge at Wyman Road, 600 ft downstream of N.H. WRD Reservoir, 0.4 mi north of intersection with State Highway 123/124, 0.5 mi northwest of New Ipswich, N.H.                         | 48              | 10-06-88<br>9-06-89 | .54<br>.81                      |
| Furnace Brook         | Souhegan River     | Lat 42°45'32", long 71°50'47", Hillsborough County, Hydrologic Unit 01070002, 20 ft downstream of culvert at Wilton Road, 500 ft north of intersection with State Highway 123/124, at New Ipswich, N.H.   | 49              | 10-06-88            | .85                             |
| West Branch River     | Souhegan River     | Lat 42°44'43", long 71°50'04", Hillsborough County, Hydrologic Unit 01070002, upstream from dam and roadway at Smithville, 1.2 mi northwest of Ashby Road-River Road intersection, 0.5 mi downstream of Smithville Flood Control Reservoir, 1.5 mi southwest of New Ipswich, N.H.     | 50              | 10-06-88<br>9-06-89 | 4.74<br>1.33                    |

## Appendix D. Low-flow streamflow measurements at miscellaneous sites--Continued

| Stream                | Tributary to    | Location   | Informal number | Measurements        |                                 |
|-----------------------|-----------------|--|-----------------|---------------------|---------------------------------|
|                       |                 |  |                 | Date                | Dis-charge (ft <sup>3</sup> /s) |
| Merrimack River Basin |                 |  |                 |                     |                                 |
| West Branch River     | Souhegan River  | Lat 42°43'53", long 71°50'53", Hillsborough County, Hydrologic Unit 01070002, 100 ft downstream of culvert at River Road, 0.25 mi northeast of intersection with Ashby Road, 400 ft above confluence with Souhegan River, 2.0 mi southeast of New Ipswich, N.H.                  | 51              | 10-06-88<br>9-06-89 | 7.96<br>1.82                    |
| Souhegan River        | Merrimack River | Lat 42°43'40", long 71°50'53", Hillsborough County, Hydrologic Unit 01070002, 100 ft downstream of culvert at Ashby Road, 0.1 mi southeast of intersection with River Road, 1.2 mi north of the Massachusetts-New Hampshire Stateline, and 2.2 mi southeast of New Ipswich, N.H. | 52              | 10-06-88<br>9-06-89 | 2.02<br>3.11                    |
| Souhegan River        | Merrimack River | Lat 42°45'00", long 71°52'18", Hillsborough County, Hydrologic Unit 01070002, immediately downstream of Water Loom Pond outlet, 0.5 mi southwest of High Bridge, 1.0 mi southeast of New Ipswich, N.H.   | 53              | 10-06-88            | 29.3                            |
| Gould Mill Brook      | Merrimack River | Lat 42°44'22", long 71°42'57", Hillsborough County, Hydrologic Unit 01070004, 30 ft upstream from culvert at Withee Brook Road, 0.5 mi west of Mason Brookline town line, 300 ft south of the intersection with Mason-Brookline Road, 2.8 mi east of Mason, N.H.                 | 54              | 10-06-88<br>9-07-89 | .08<br>.02                      |
| Gould Mill Brook      | Lancy Brook     | Lat 42°46'09", long 71°44'09", Hillsborough County, Hydrologic Unit 01070002, 60 ft downstream from culvert at Campbell Mill Road, 0.3 mi west of Mason-Brookline townline, 0.25 mi southwest of intersection with Mason-Brookline Road, 2.8 mi southeast of Mason, N.H.         | 55              | 10-06-88<br>9-07-89 | .10<br>.09                      |
| Gould Mill Brook      | Lancy Brook     | Lat 42°44'28", long 71°42'08", Hillsborough County, Hydrologic Unit 01070002, 15 ft downstream from culvert at Mason-Brookline Road, 0.4 mi east of the Mason-Brookline town line, 0.28 mi upstream from Lancy Brook, and 2.0 mi west of Brookline, N.H.                         | 56              | 10-06-88<br>9-07-89 | .89<br>.71                      |
| Black Brook           | Mitchell River  | Lat 42°46'13", long 71°44'57", Hillsborough County, Hydrologic Unit 01070002, 20 ft below dam outlet off of Russell Road, 0.4 mi west of intersection with Starch Mill Road, 1.8 mi northeast of Mason, N.H.   | 57              | 10-06-88            | .52                             |
| Spaulding Brook       | Black Brook     | Lat 42°46'09", long 71°44'09", Hillsborough County, Hydrologic Unit 01070002, 0.2 mi downstream from confluence of Black Brook, 0.3 mi north-east of the Starch Mill Road-Black Brook Road intersection, 2.5 mi northeast of Mason, N.H.   | 58              | 10-06-88            | .03                             |

Appendix D. Low-flow streamflow measurements at miscellaneous sites--Continued

| Stream                | Tributary to | Location  | Informal number | Measurements |                                 |
|-----------------------|--------------|---|-----------------|--------------|---------------------------------|
|                       |              |   |                 | Date         | Dis-charge (ft <sup>3</sup> /s) |
| Merrimack River Basin |              |   |                 |              |                                 |
| Rocky Brook           | Mason Brook  | Lat 42°43'39", long 71°45'44", Hillsborough County, Hydrologic Unit 01070004, immediately upstream from culvert at State Highway 123, 0.5 mi south of intersection with Depot Road, 1.2 mi southeast of Mason, N.H. | 59              | 10-06-88     | 0.09                            |

<sup>1</sup> U.S. Geological Survey gaging stations and identification number.