<table>
<thead>
<tr>
<th>System</th>
<th>Series</th>
<th>Formation</th>
<th>Approximate thickness (feet)</th>
<th>Physical character</th>
<th>Hydrologic Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quaternary</td>
<td>Recent and Pleistocene</td>
<td></td>
<td>0-100</td>
<td>Mudsclay and sands-shells beds and early strata occur in extreme eastern areas.</td>
<td>Excellent aquifer for domestic and small industrial supplies.</td>
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<tr>
<td>Tertiary</td>
<td>Miocene</td>
<td>Chesapeake group, includes Yorktown, St. Marys, and Calvert formations.</td>
<td>0-600</td>
<td>Shell marls, blue and gray clays, and minor amounts of sand.</td>
<td>Although most of the sediments are relatively impermeable, the sand beds yield moderate supplies extensively in the eastern peninsula area.</td>
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<td></td>
<td>Eocene</td>
<td>Includes from top to bottom the Chickahominy, Nanjemoy, and Aquia formations.</td>
<td>0-400</td>
<td>Gray marls and fine quartz and glauconitic sands.</td>
<td>Quarts and glauconitic sands furnish water to some screened wells.</td>
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<td></td>
<td>Paleocene (and Cretaceous)</td>
<td>Mattaponi</td>
<td>0-300</td>
<td>Mottled clay, glauconitic sand and marl, and thick quartz basal sand.</td>
<td>A prolific water-bearing formation in central part of Coastal Plain. East of Williamsburg, the formation yields brackish water.</td>
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<tr>
<td></td>
<td>Cretaceous</td>
<td>Upper and Lower Cretaceous Potomac group</td>
<td>0-1500</td>
<td>Lenticular sands and clays underlying entire Coastal Plain.</td>
<td>Some of the sand beds are very permeable and are capable of furnishing large supplies of water to wells. Toward the coast the lowermost parts of these deposits contain brackish water, and in places all contain water too brackish for use.</td>
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<tr>
<td>Pre-Cretaceous</td>
<td></td>
<td>Igneous and metamorphic rocks, also dense sandstones and shales, collectively called &quot;basement rocks&quot;</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Table 7. GENERALIZED DESCRIPTION OF FORMATIONS AND THEIR HYDROLOGIC CHARACTERISTICS IN VIRGINIA