

**SUMMARY OF  
VERTICAL HYDRAULIC CONDUCTIVITY VALUES  
FOR GEOLOGIC AND HYDROGEOLOGIC UNITS IN NEW JERSEY  
January, 2012**

<b>Geologic unit</b>	<b>Number of tests</b>	<b>Arithmetic mean (ft/d)</b>	<b>Minimum (ft/d)</b>	<b>Maximum (ft/d)</b>	<b>Median (ft/d)</b>	<b>Standard deviation</b>
Outwash deposits	2	2.330	1.580	3.080	2.330	1.061
Deltaic sediment	2	0.152	0.004	0.300	0.152	0.210
Fluvial over lacustrine sediment	1	106.000	106.000	106.000		
Till (Quaternary)	1	81.000	81.000	81.000		
Till (late Wisconsinan)	1	1.050	1.050	1.050		
Stratified drift	5	2.963	0.003	8.900	1.960	3.700
Glaciolacustrine sand and gravel	1	11.700	11.700	11.700		
Glaciolacustrine sand and gravel (late Wisconsinan)	2	6.740	6.580	6.900	6.740	0.226
Cohansey Formation	11	3.722	0.084	12.400	1.620	3.878
Cohansey & Kirkwood Formations	10	1.356	0.070	4.050	0.540	1.538
Kirkwood Formation - lower member (sand facies)	2	0.000	0.000	0.000	0.000	0.000
Kirkwood Formation	2	4.870	4.310	5.430	4.870	0.792
Vincentown Formation	1	0.770	0.770	0.770		
Hornerstown Formation	1	0.008	0.008	0.008		
Mount Laurel and Wenonah Formations	2	0.630	0.070	1.190	0.630	0.792
Englishtown Formation	1	0.000	0.000	0.000		
Magothy Formation	4	14.770	0.021	46.740	6.160	21.512
Raritan Formation	1	0.020	0.020	0.020		
Potomac Formation	1	0.030	0.030	0.030		
Potomac Formation, Unit 3 (upper subsurface and outcrop)	1	23.140	23.140	23.140		
Passaic Formation	1	2.690	2.690	2.690		
Ojta labels on some maps]	1	363.000	363.000	363.000		
Pyroxene granite	1	186.000	186.000	186.000		
<b>Hydrogeologic unit</b>						
continous or discontinous till	2	41.025	1.050	81.000	41.025	56.533
glacial sand and gravel	13	11.612	0.003	106.000	3.080	28.609
Cohansey aquifer	1	7.260	7.260	7.260		
Kirkwood-Cohansey water-table aquifer system	22	2.590	0.070	12.400	1.420	3.010
Atlantic City "800-foot" sand aquifer	2	0.000	0.000	0.000	0.000	0.000
composite confining unit	1	0.008	0.008	0.008		
Vincentown aquifer	1	0.770	0.770	0.770		
Mount Laurel-Wenonah aquifer	2	0.630	0.070	1.190	0.630	0.792
Englishtown aquifer system	1	0.000	0.000	0.000		
upper Potomac-Raritan-Magothy aquifer	4	14.770	0.021	46.740	6.160	21.512
middle Potomac-Raritan-Magothy aquifer	1	0.020	0.020	0.020		
lower Potomac-Raritan-Magothy aquifer	2	11.585	0.030	23.140	11.585	16.341
Brunswick aquifer	1	2.690	2.690	2.690		
Martinsburg Formation and Jutland klippe sequence	1	363.000	363.000	363.000		
igneous and metamorphic rocks	1	186.000	186.000	186.000		