Base from U.S. Geological Survey

CONFIGURATION OF THE TOP AND AREAS OF USE AND OF POTENTIAL USE OF THE PINEY POINT AQUIFER

THICKNESS OF THE PINEY POINT AQUIFER

GENERALIZED POTENTIOMETRIC SURFACE FOR THE PINEY POINT AQUIFER

Chemical constituents in ground water in the Piney Point aquifer (concentration of constituents in milligrams per liter)

Area	1	2	3	4
Dissolved solids*	200-250	250-500	500-1000	>1000
Hardness	90-200	20-90	15-45	>30
Sodium	4-30	30-190	190-500	>500
Bicarbonate	170-250	200-500	400-900	>600
Sulfate	3-15	3-20	7-100	>100
Chloride	1-7	1-25	3-200	>200
Fluoride	<0.4	0.4-1.6	1.4-2.3	0.7-2.0
Nitrate	<2	<2	<2	<3
Silica	45-60	10-45	15-30	10-45
Iron and manganese	0.1-1.5	0.0-0.4	0.0-0.5	>1.0
pH	7.7-7.9	7.9-8.6	7.8-8.5	7.8-8.9

*In area 1, dissolved solids ≥1.40 × specific conductance micromhos at 25° C)
In areas 2, 3, and 4, dissolved solids ≥1.55 × specific conductance

CHEMICAL QUALITY OF GROUND WATER IN THE PINEY POINT AQUIFER

SCALE 1:500,000
1 inch equals approximately 8 miles

10 0 10 20 30 MILES

10 0 10 20 30 40 KILOMETERS

Lambert conformal conic projection
Standard parallels 33° and 45°

GEOHYDROLOGIC MAPS OF THE PINEY POINT AQUIFER, DELMARVA PENINSULA

599-052 O - 72 (In Pocket) (Plate No. 5)