

Figure 2.3-48—Potentiometric Surface Elevation Map and Groundwater Flow Directions for the Upper Chesapeake Unit, September 2006

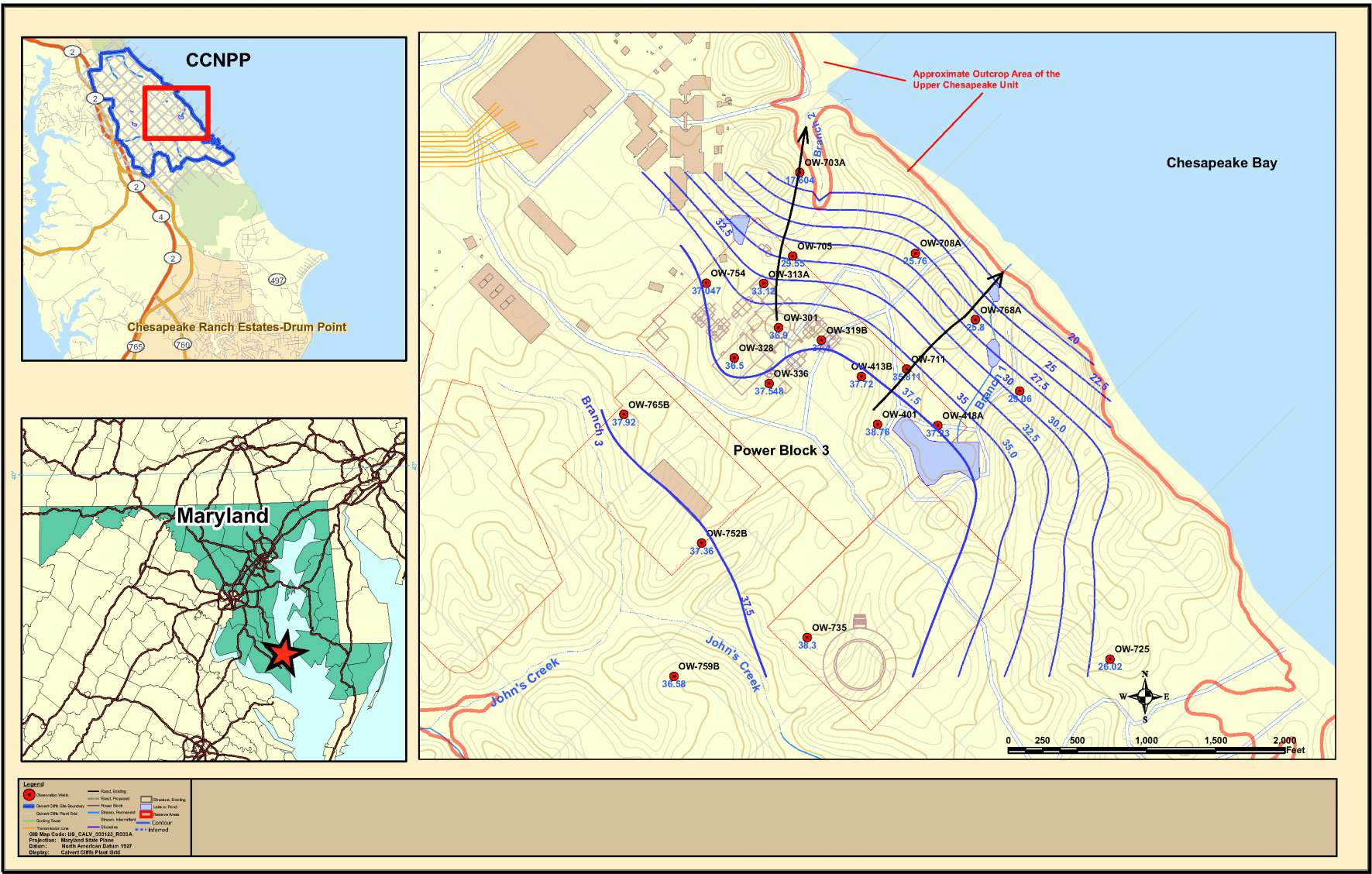


Figure 2.3-49—{Potentiometric Surface Elevation Map and Groundwater Flow Directions for the Upper Chesapeake Unit, December 2006}

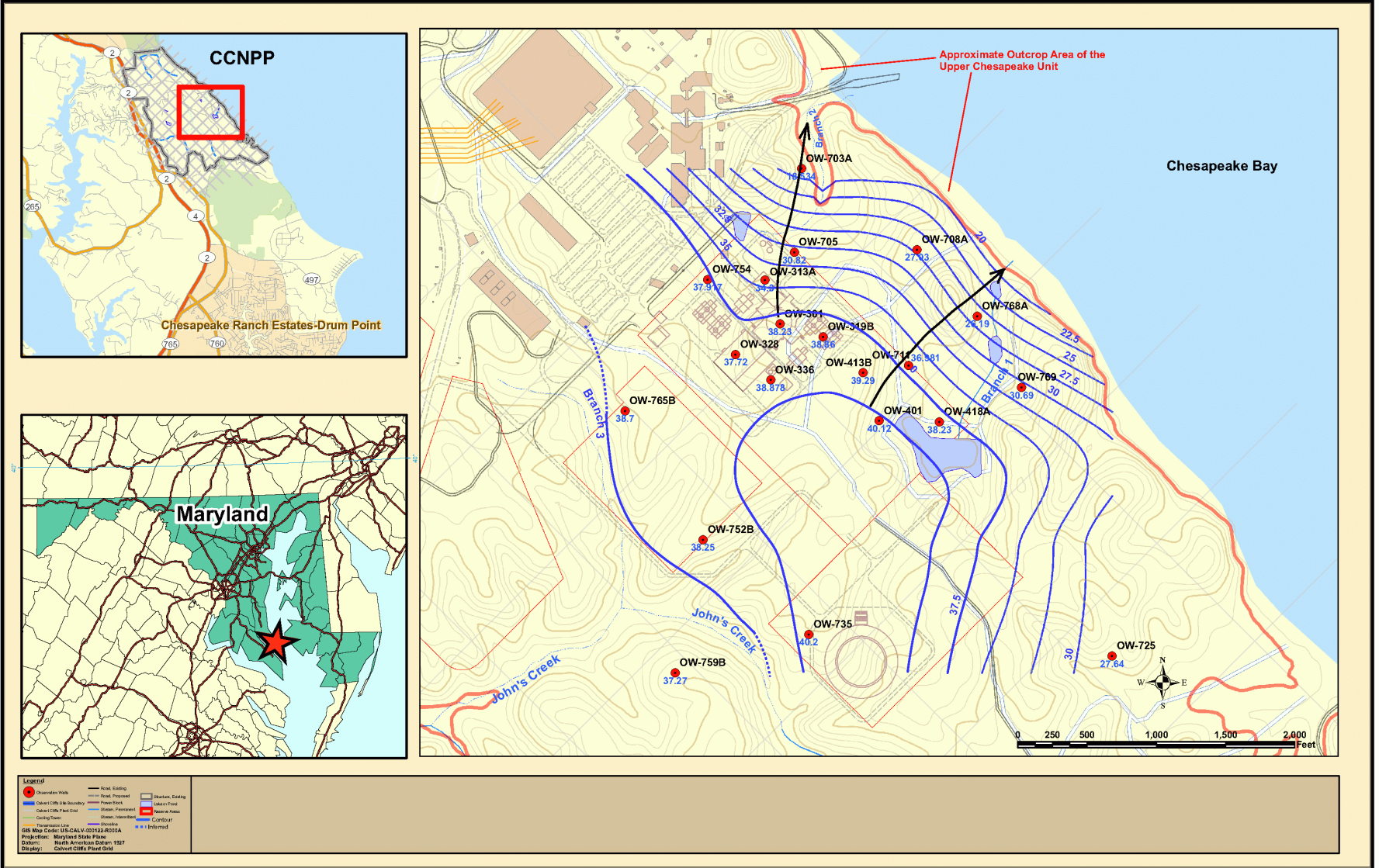


Figure 2.3-50—{Potentiometric Surface Elevation Map and Groundwater Flow Directions for the Upper Chesapeake Unit, March 2007}

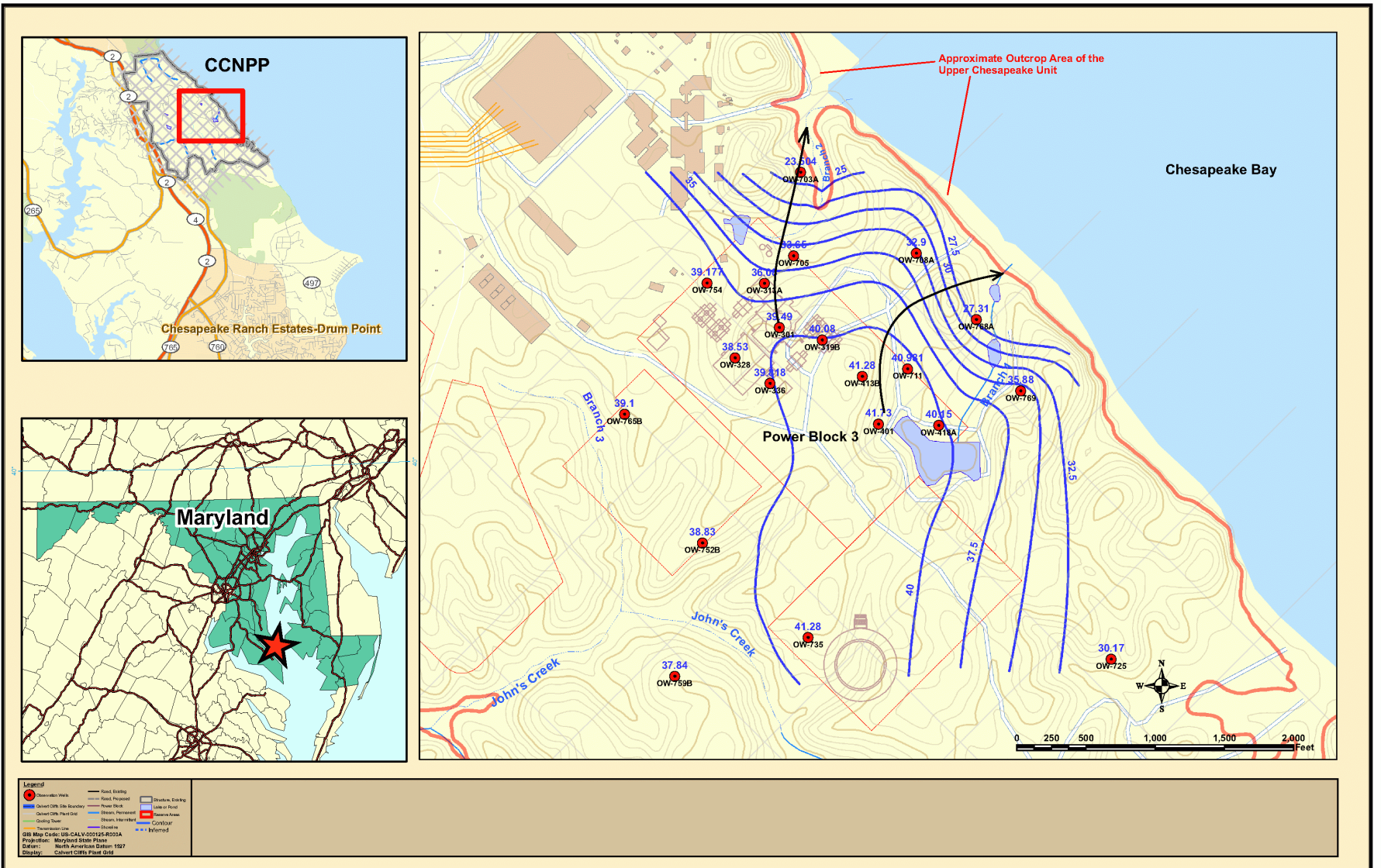


Figure 2.3-51—Groundwater Elevations for the Lower Chesapeake Unit, July 2006 through March 2007

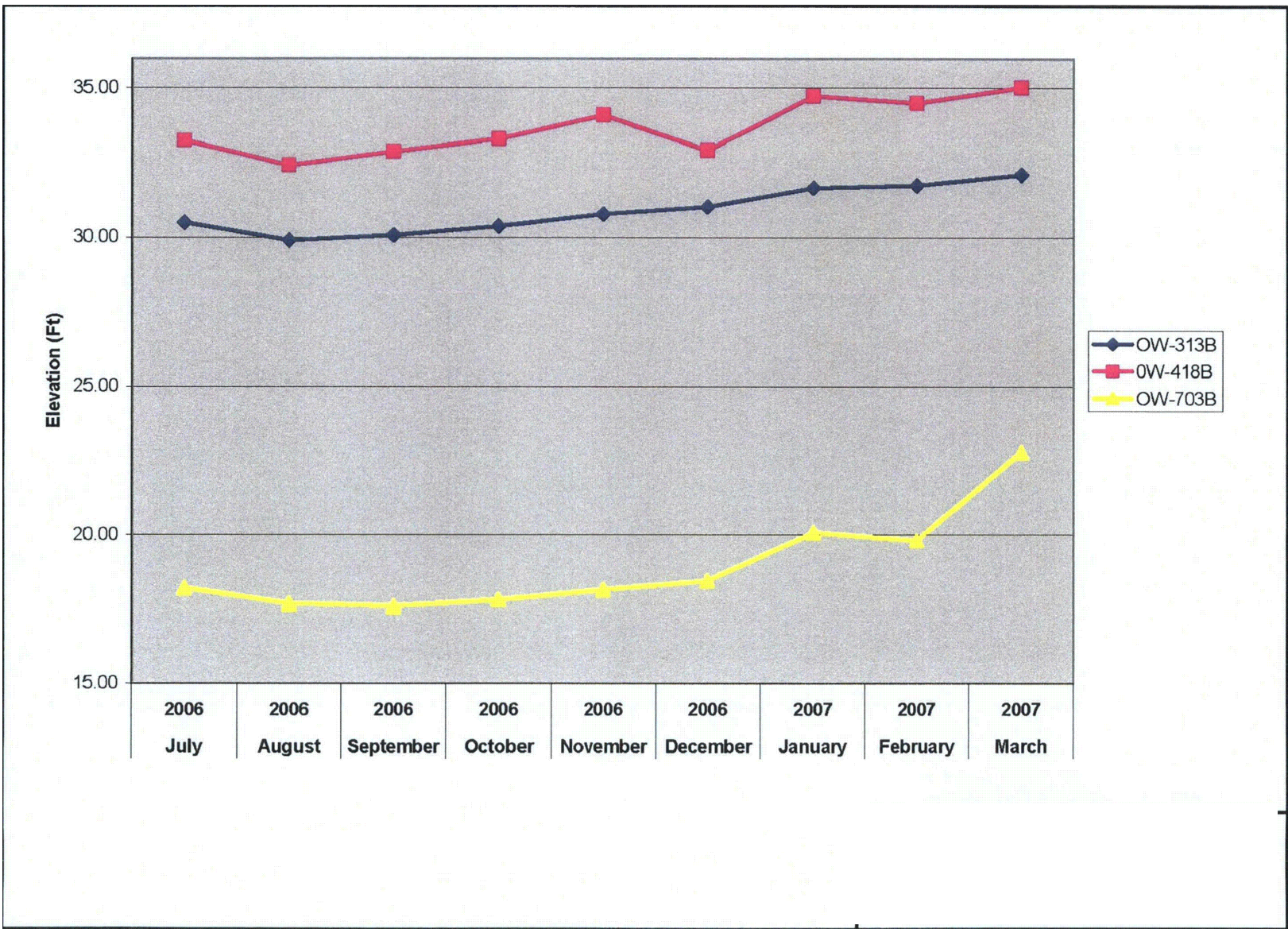


Figure 2.3-52—Potentiometric Surface Elevation Map and Groundwater Flow Directions for the Lower Chesapeake Unit, July 2006

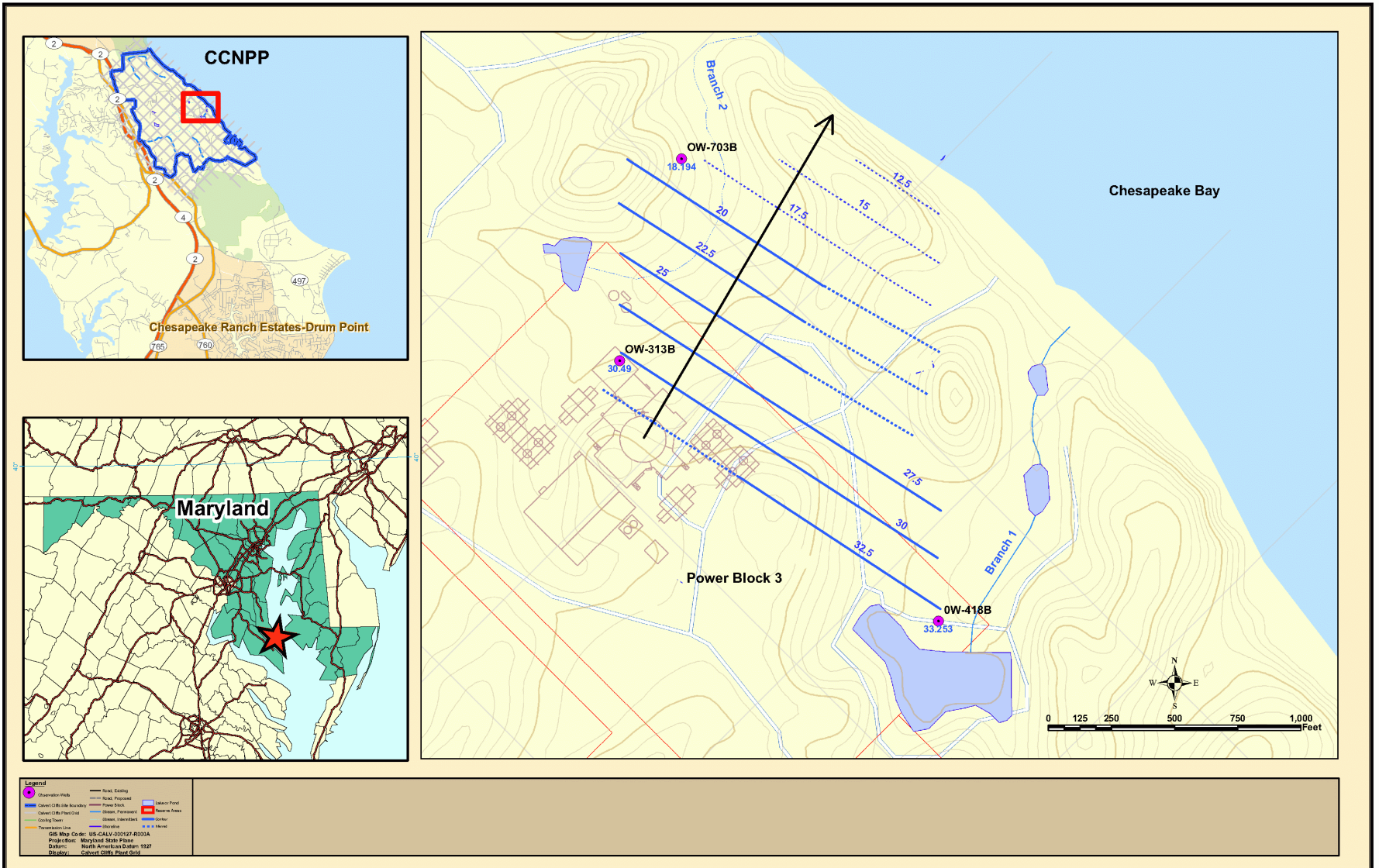


Figure 2.3-53—{Potentiometric Surface Elevation Map and Groundwater Flow Directions for the Lower Upper Chesapeake Unit, September 2006}

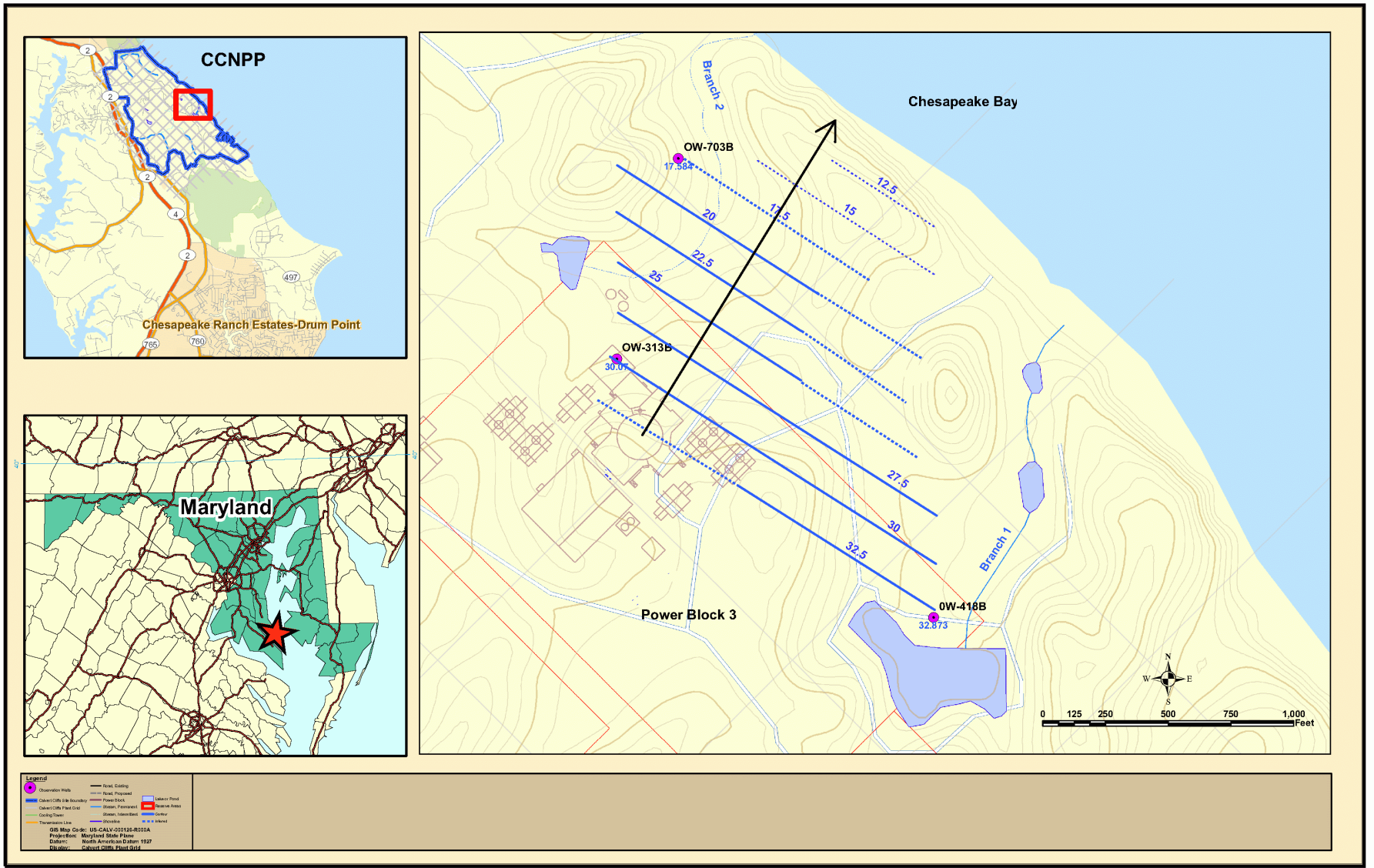


Figure 2.3-54—Potentiometric Surface Elevation Map and Groundwater Flow Directions for the Lower Upper Chesapeake Unit, December 2006

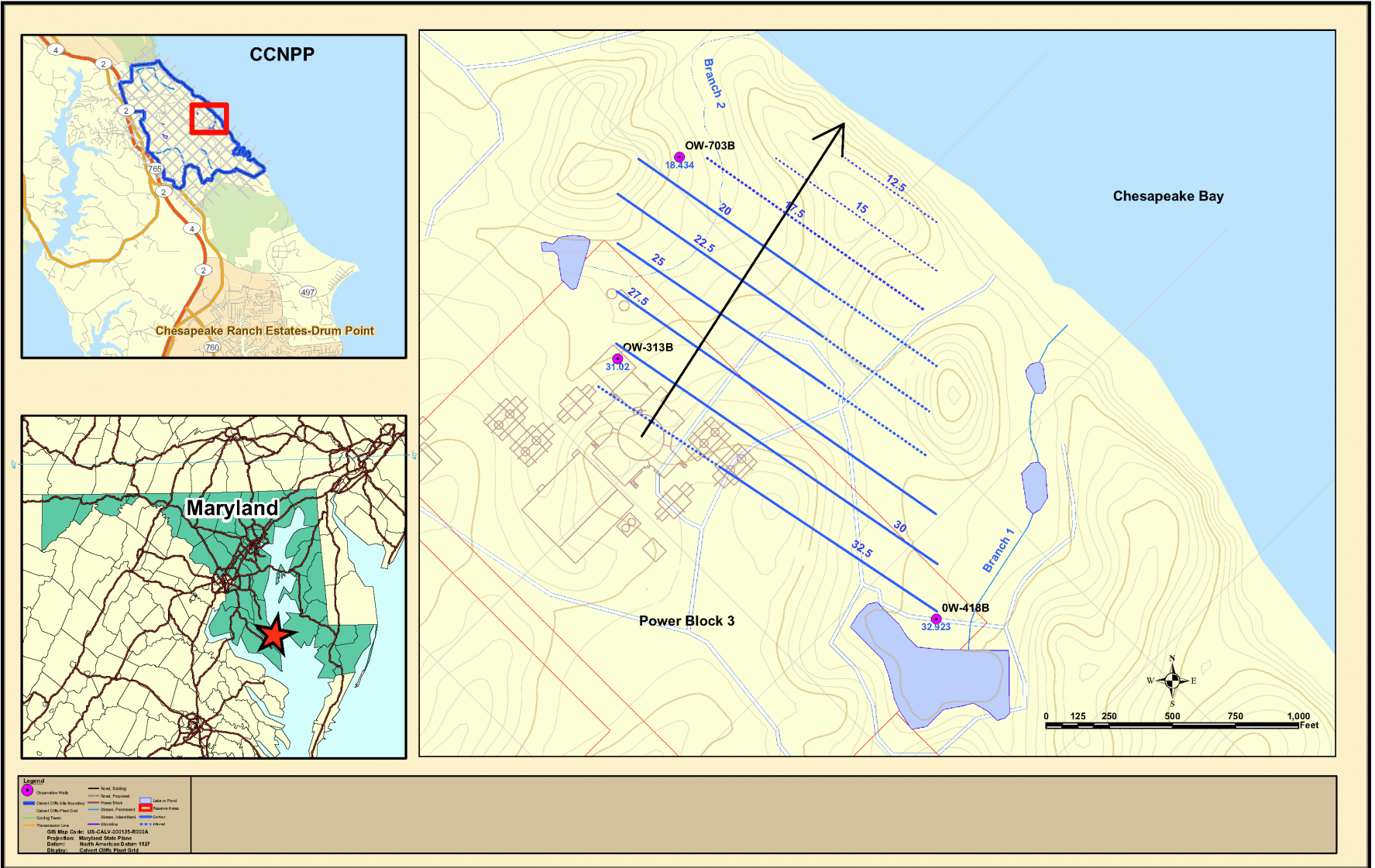


Figure 2.3-55—{Potentiometric Surface Elevation Map and Groundwater Flow Directions for the Lower Upper Chesapeake Unit, March 2007}

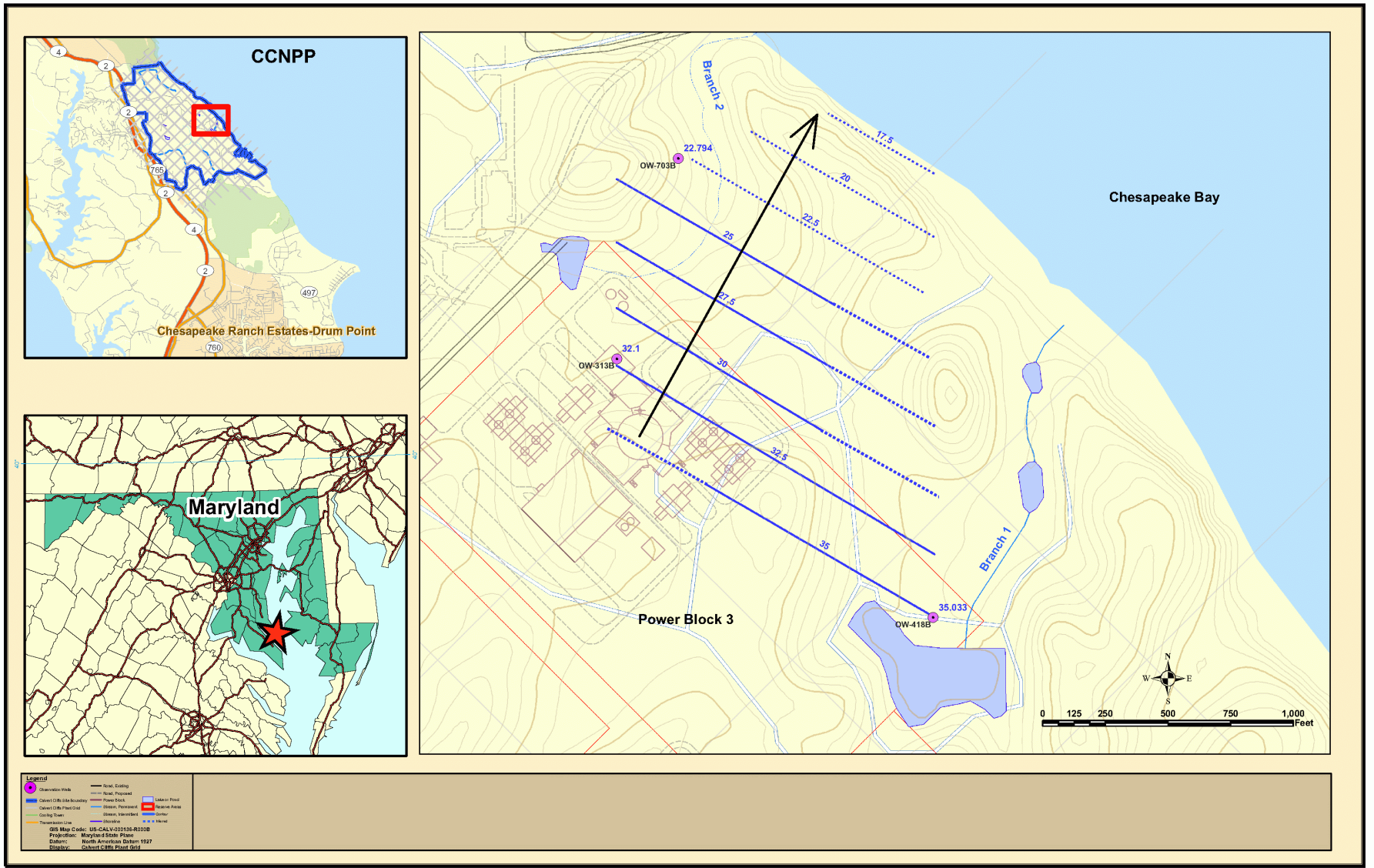


Figure 2.3-56—Hydrological System of the CCNPP Unit 3 Site Including Consumptive Surface Water Use Information



Figure 2.3-57—{Non-Consumptive Surface Water Use Information}

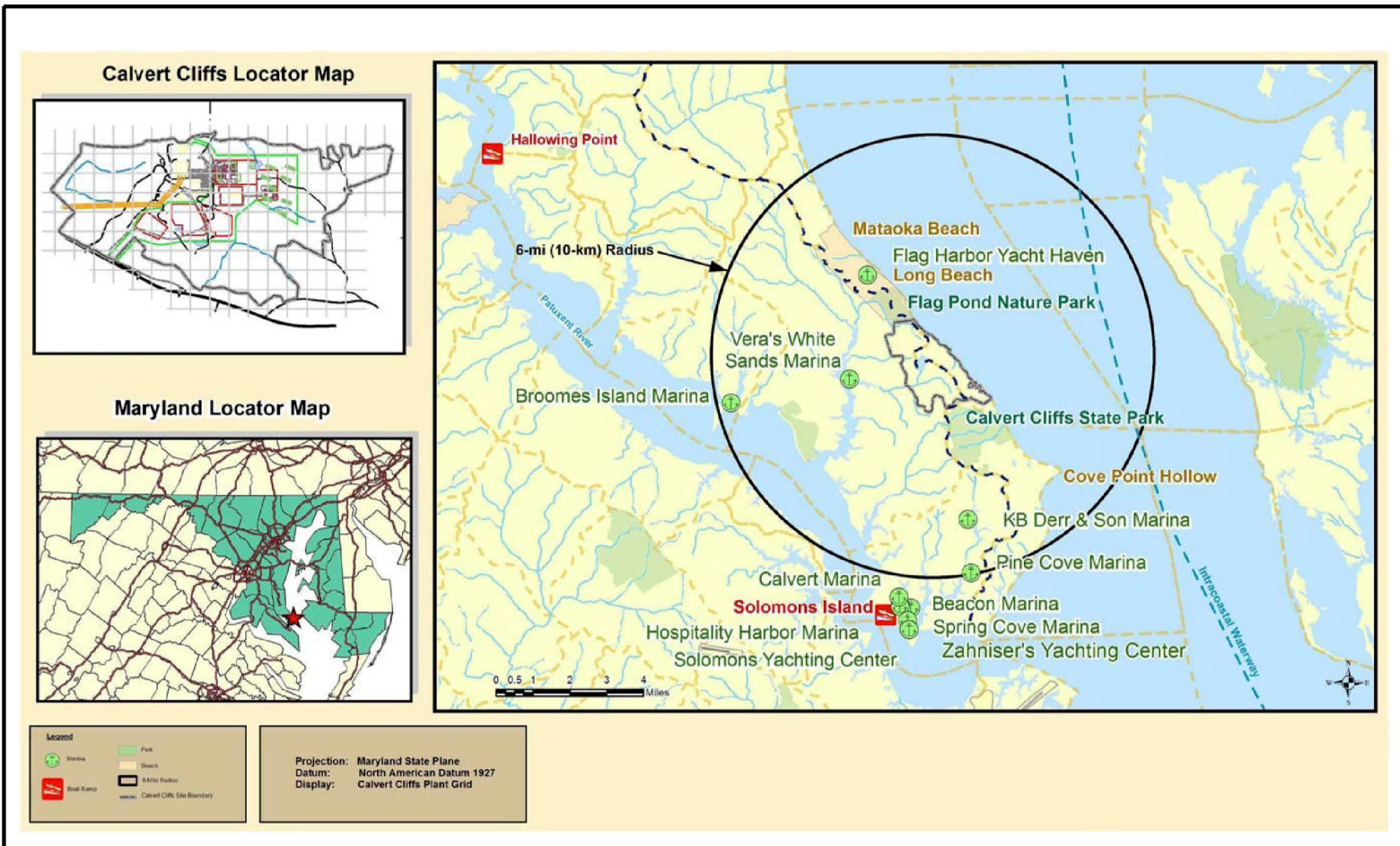


Figure 2.3-58—Schematic Cross Section of Southern Maryland Hydrostratigraphic Units

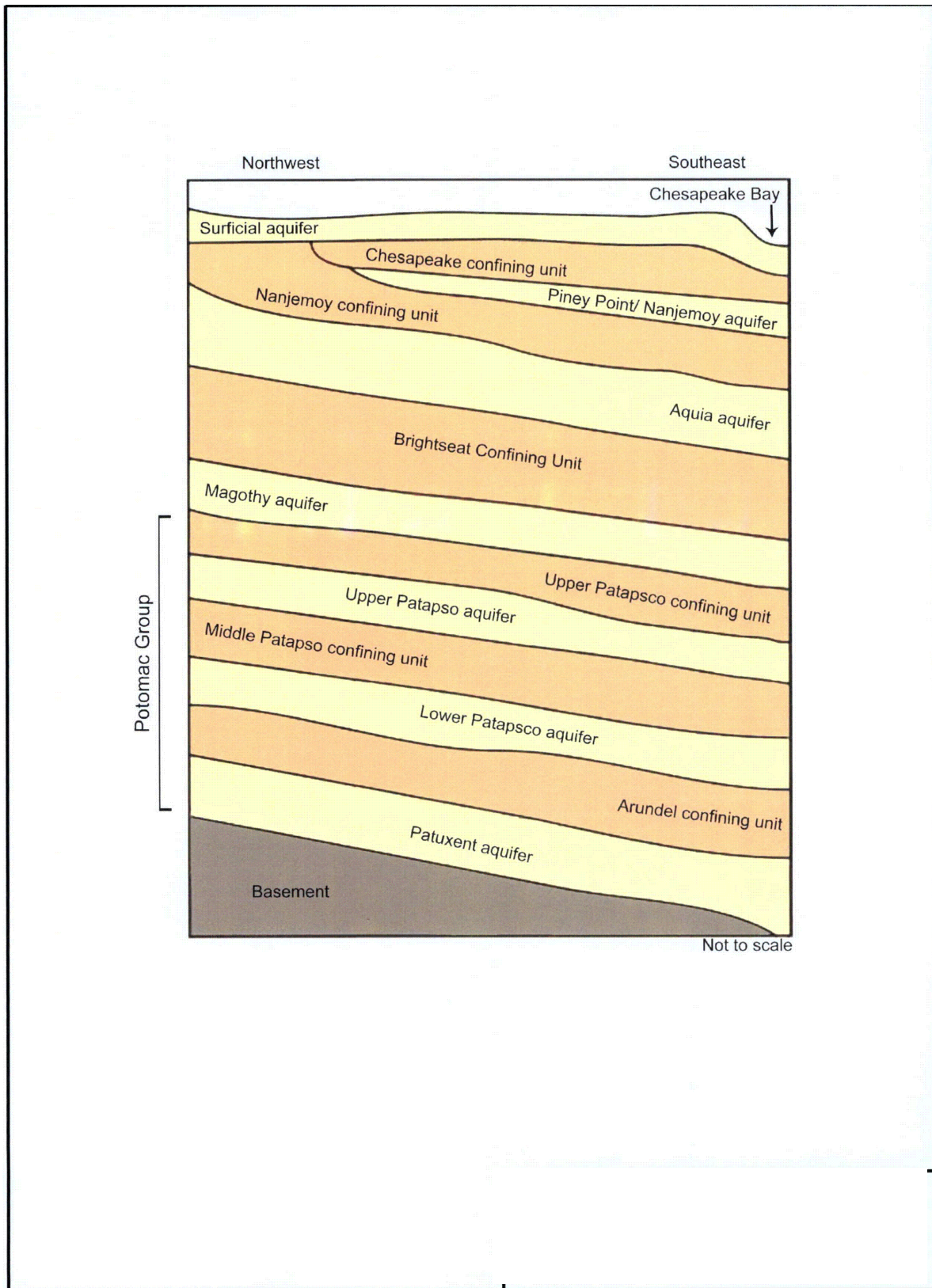


Figure 2.3-59—Groundwater Observation Wells and Cross Section Locations in the Vicinity of CCNP Unit 3

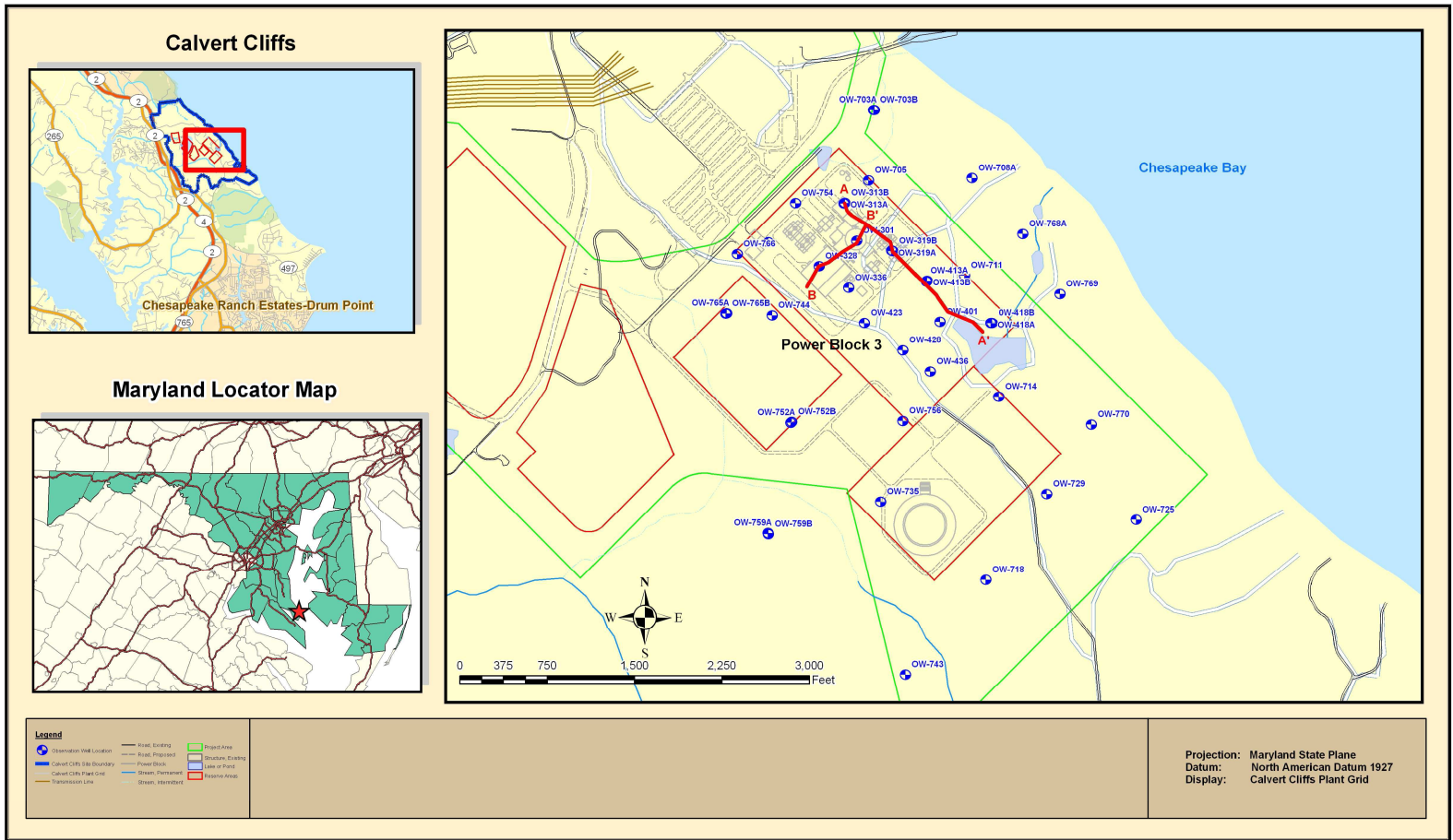


Figure 2.3-60—{Northwest-Southeast Cross Section A-A' through Proposed Unit 3 Power Block Area}

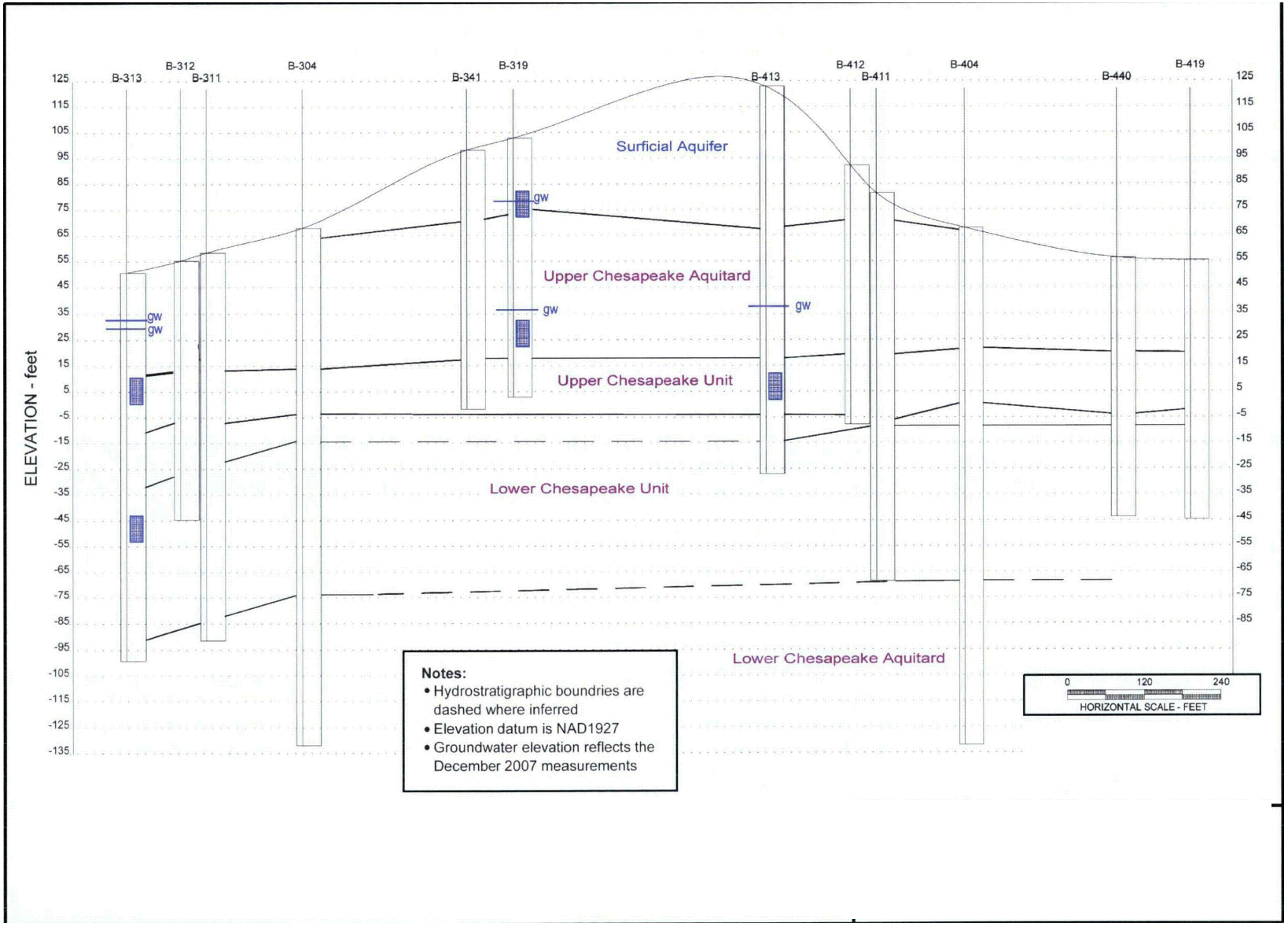


Figure 2.3-61—{Northwest-Southeast Cross Section B-B' through Proposed Unit 3 Power Block Area}

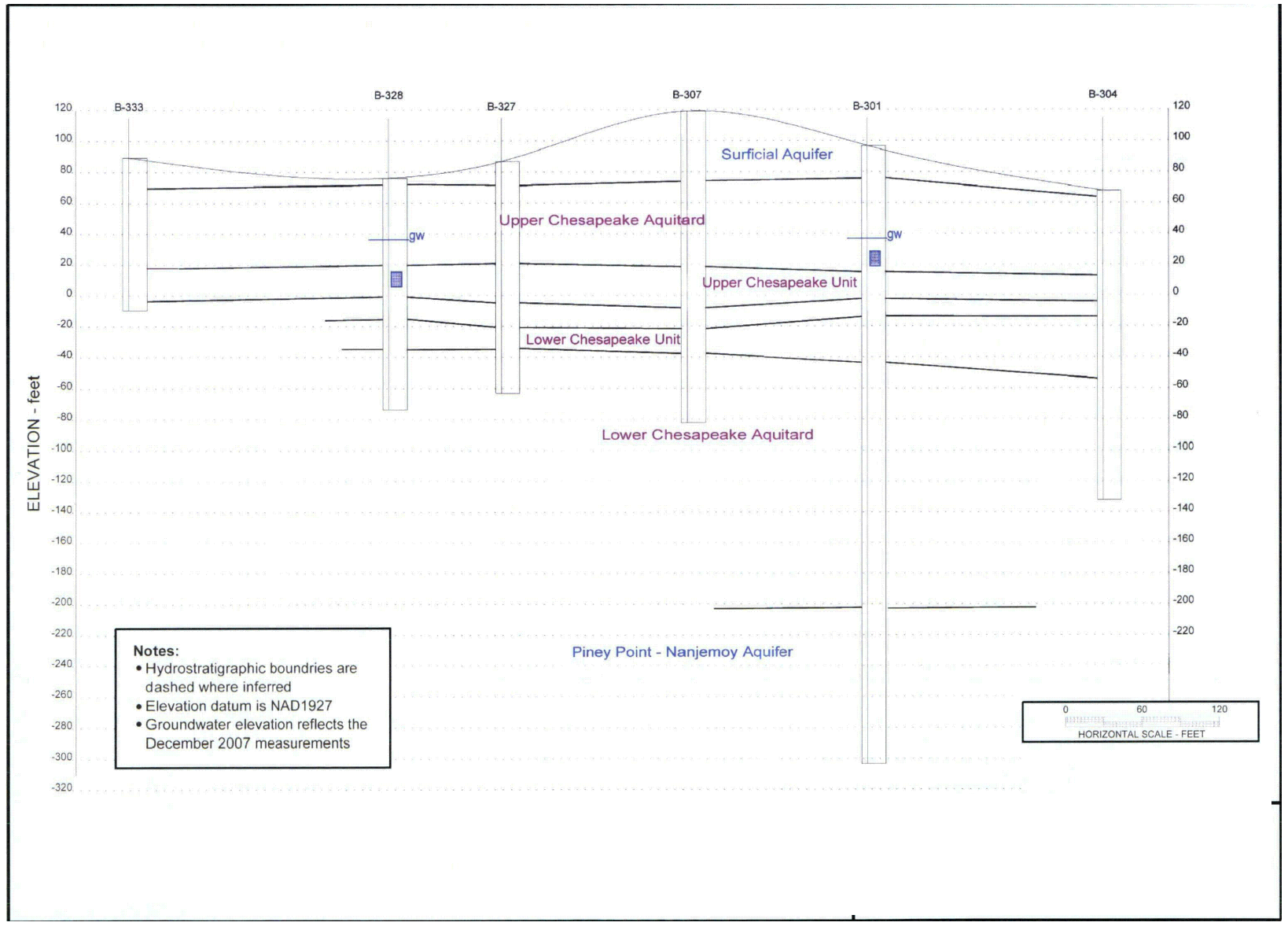


Figure 2.3-62—{Potentiometric Surface of the Aquia Aquifer in Southern Maryland, September 2003}

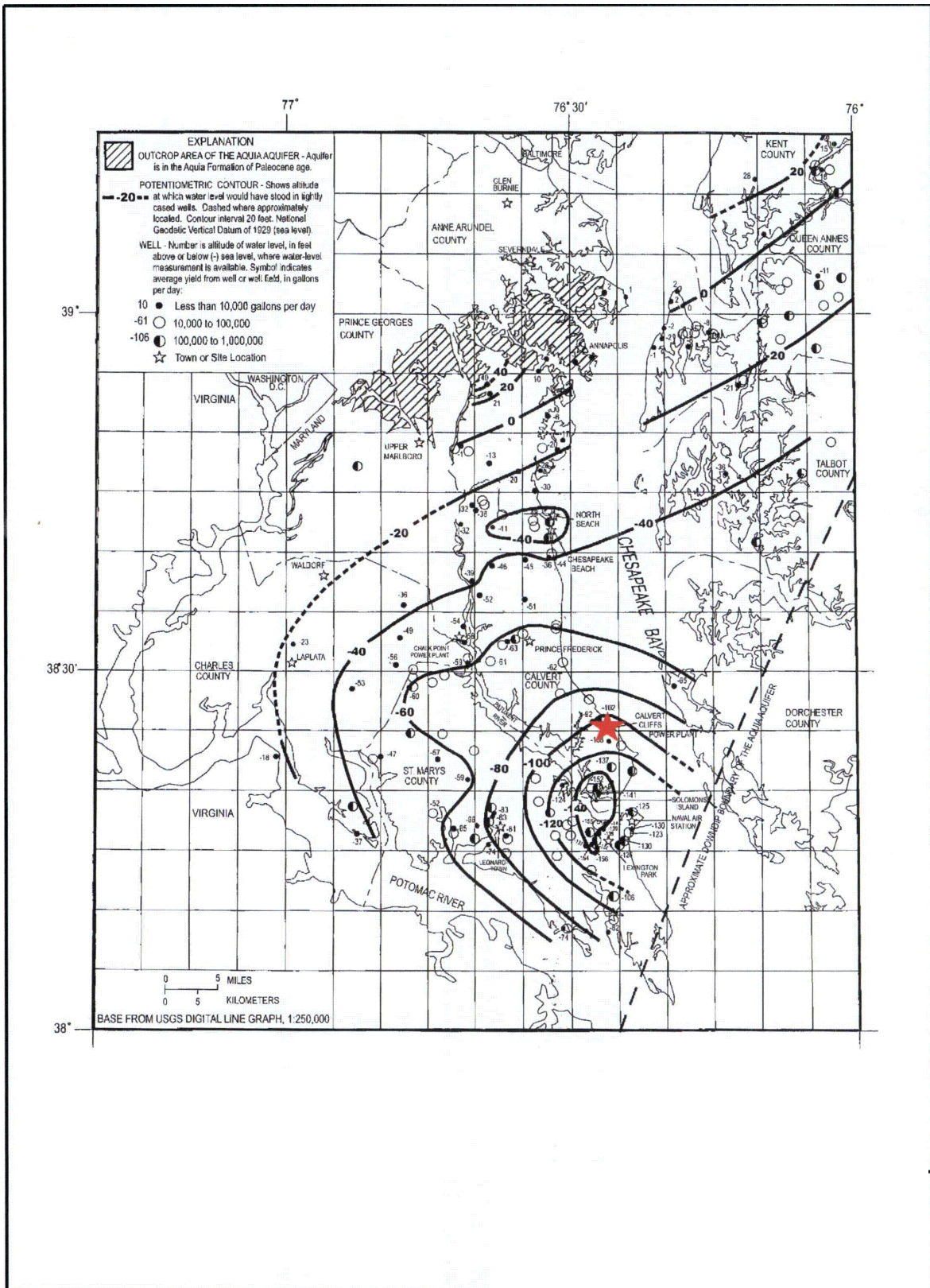


Figure 2.3-63—{Potentiometric Surface of the Magothy Aquifer in Southern Maryland, September 2003}

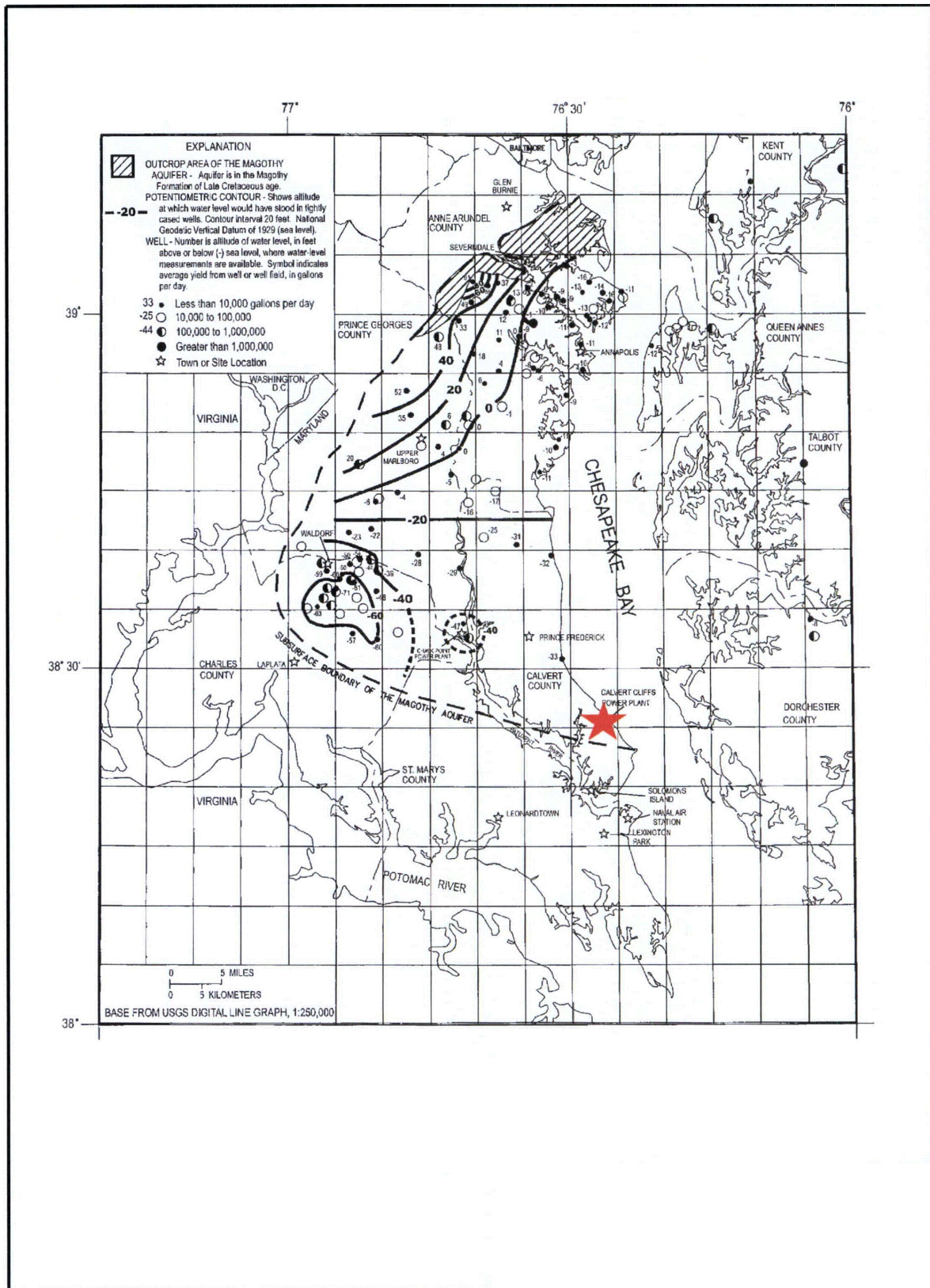


Figure 2.3-64—{Potentiometric Surface of the Upper Patapsco Aquifer in Southern Maryland, September 2003}

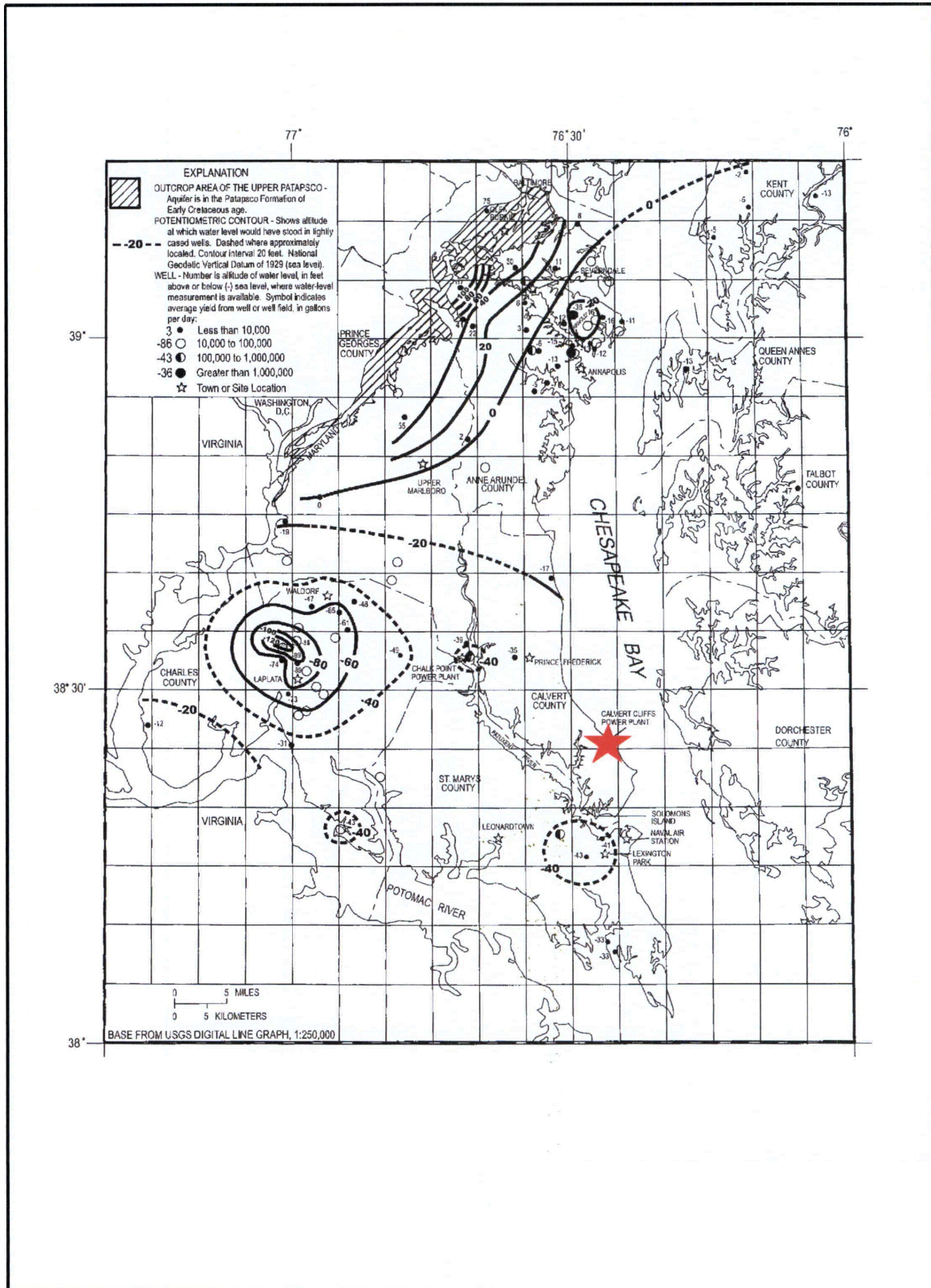


Figure 2.3-65—{Potentiometric Surface of the Lower Patapsco Aquifer in Southern Maryland, September 2003}

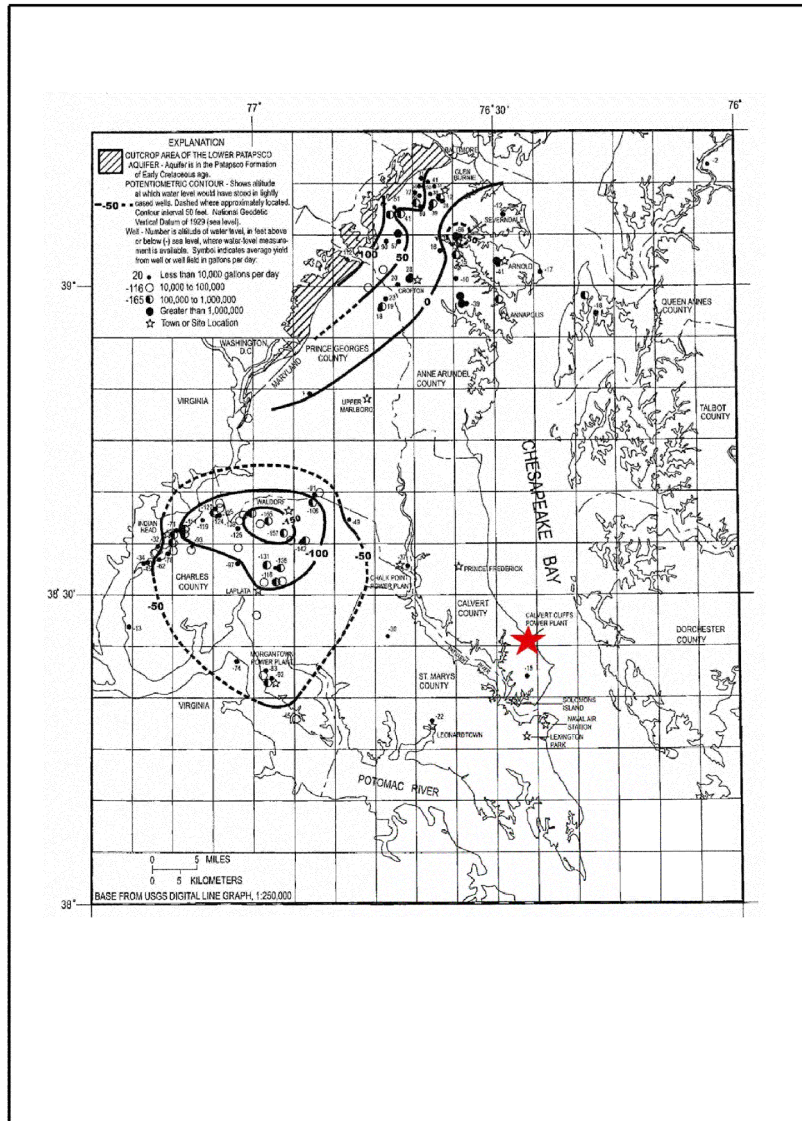


Figure 2.3-66—{US EPA Region 3 Sole Source Aquifers}

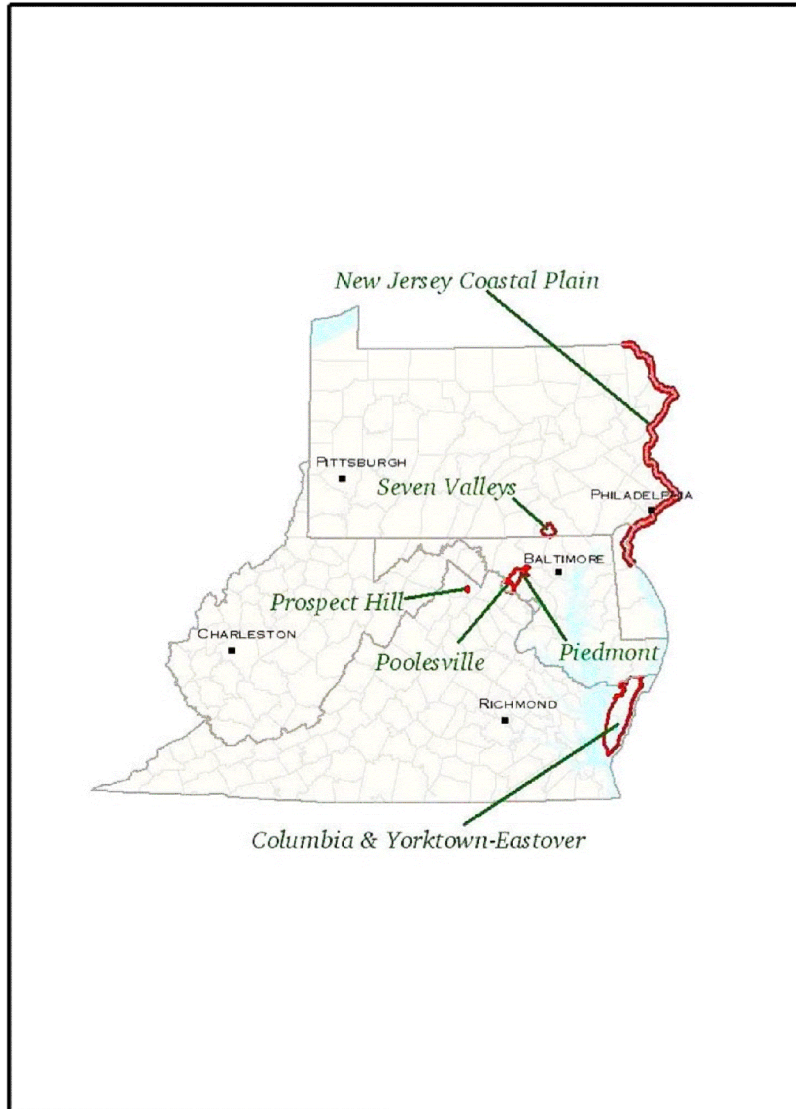


Figure 2.3-67—{Projected Location of Nearest Offsite Groundwater Well and Community Water Supply System}

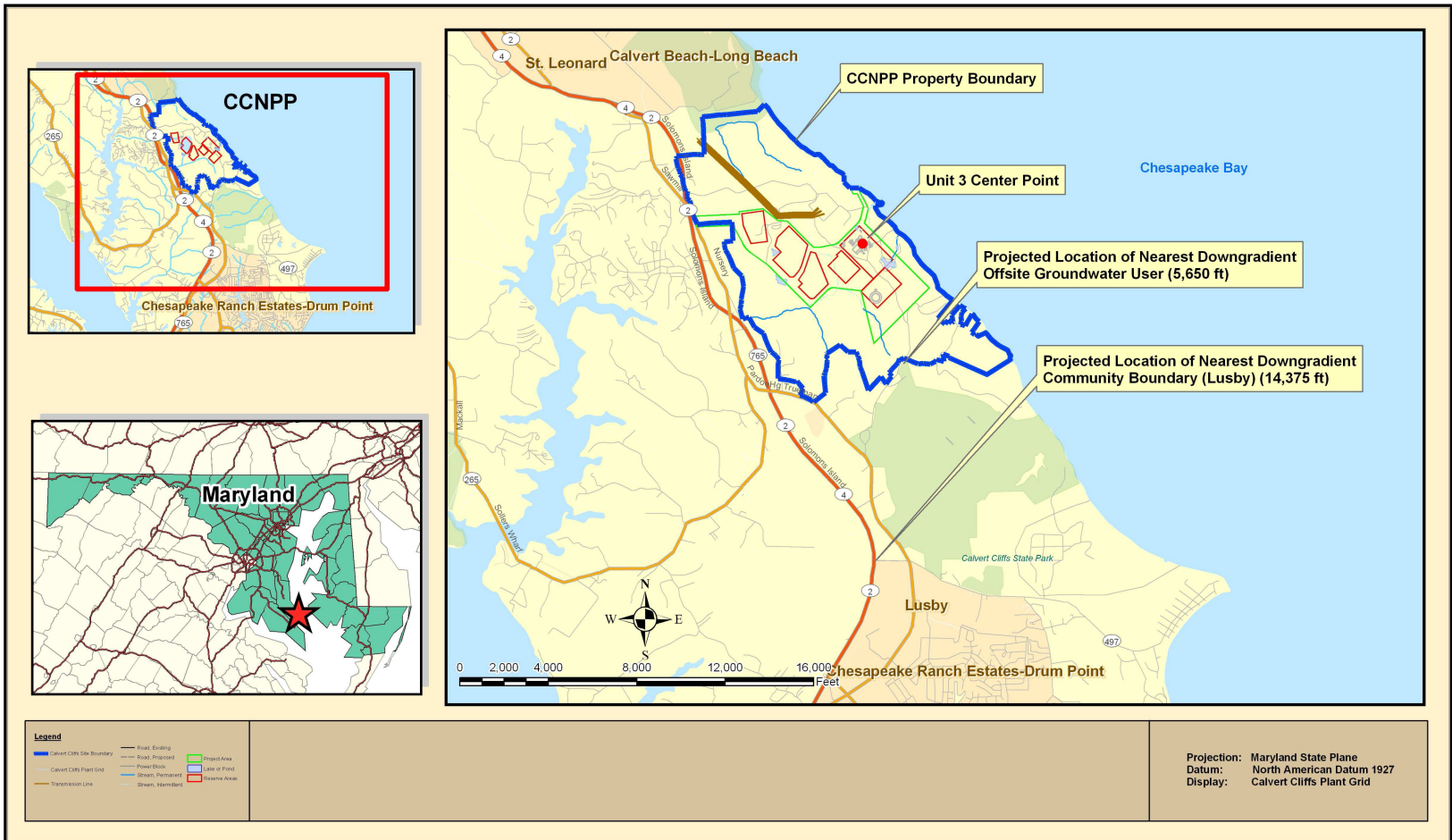


Figure 2.3-68—{CCNPP Water Production Wells}

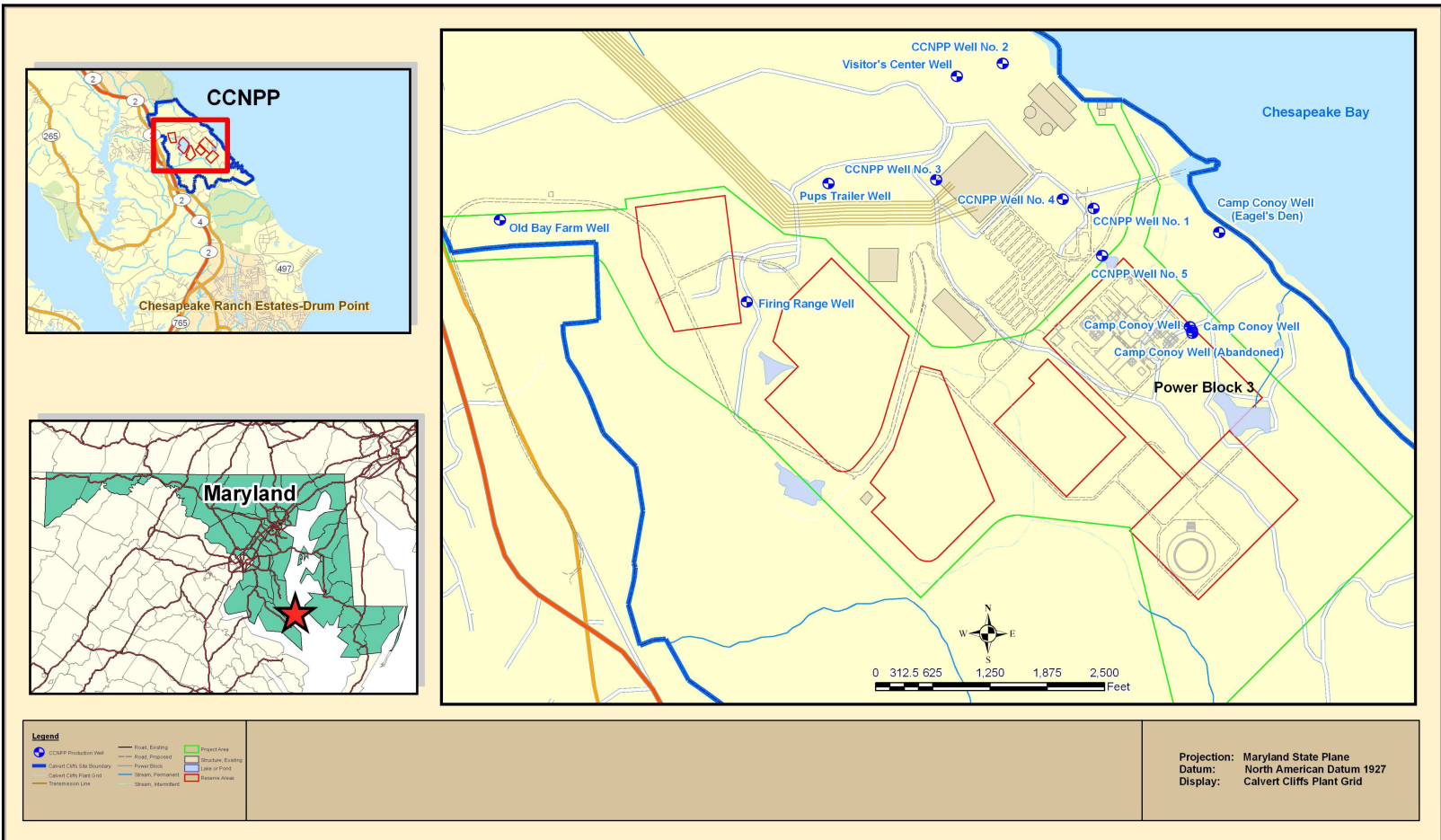


Figure 2.3-69—{The Difference Between the Potentiometric Surfaces of the Aquia Aquifer, September 1982 and September 2003, in Southern Maryland}

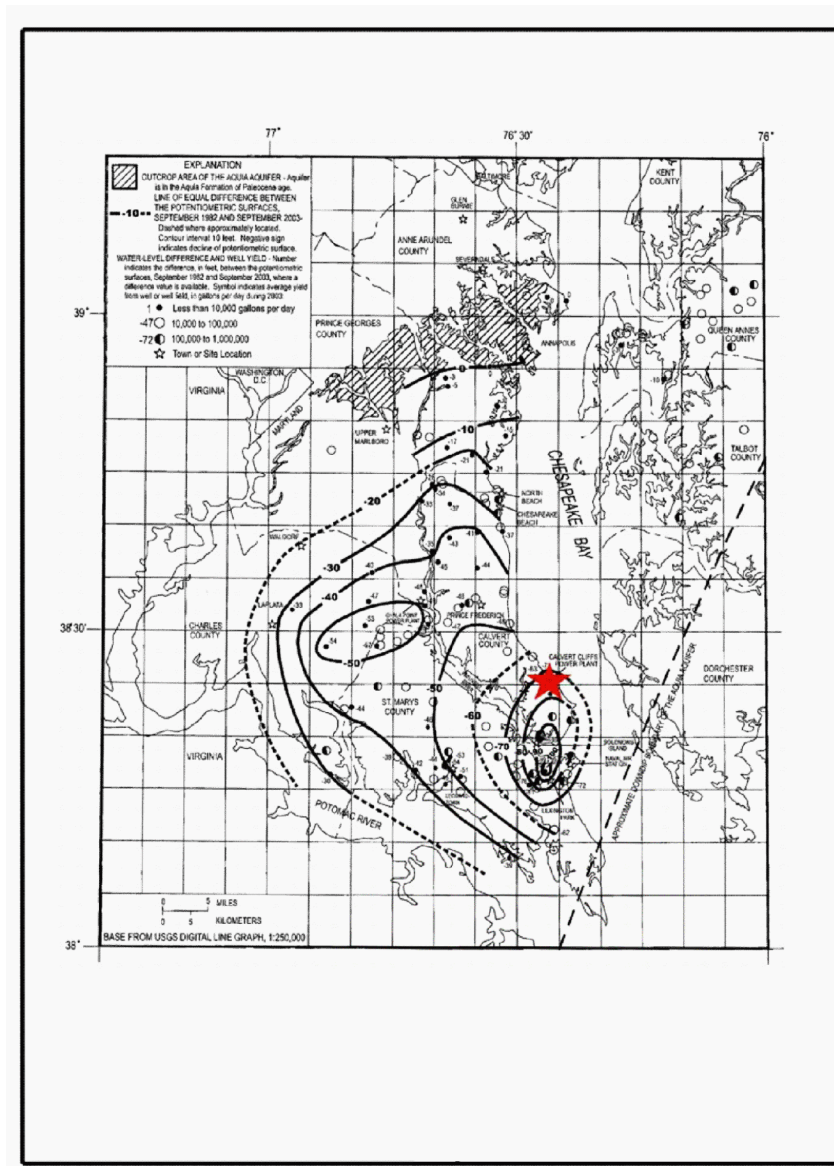


Figure 2.3-70—The Difference Between the Potentiometric Surfaces of the Magothy Aquifer, September 1975 and September 2003, in Southern Maryland

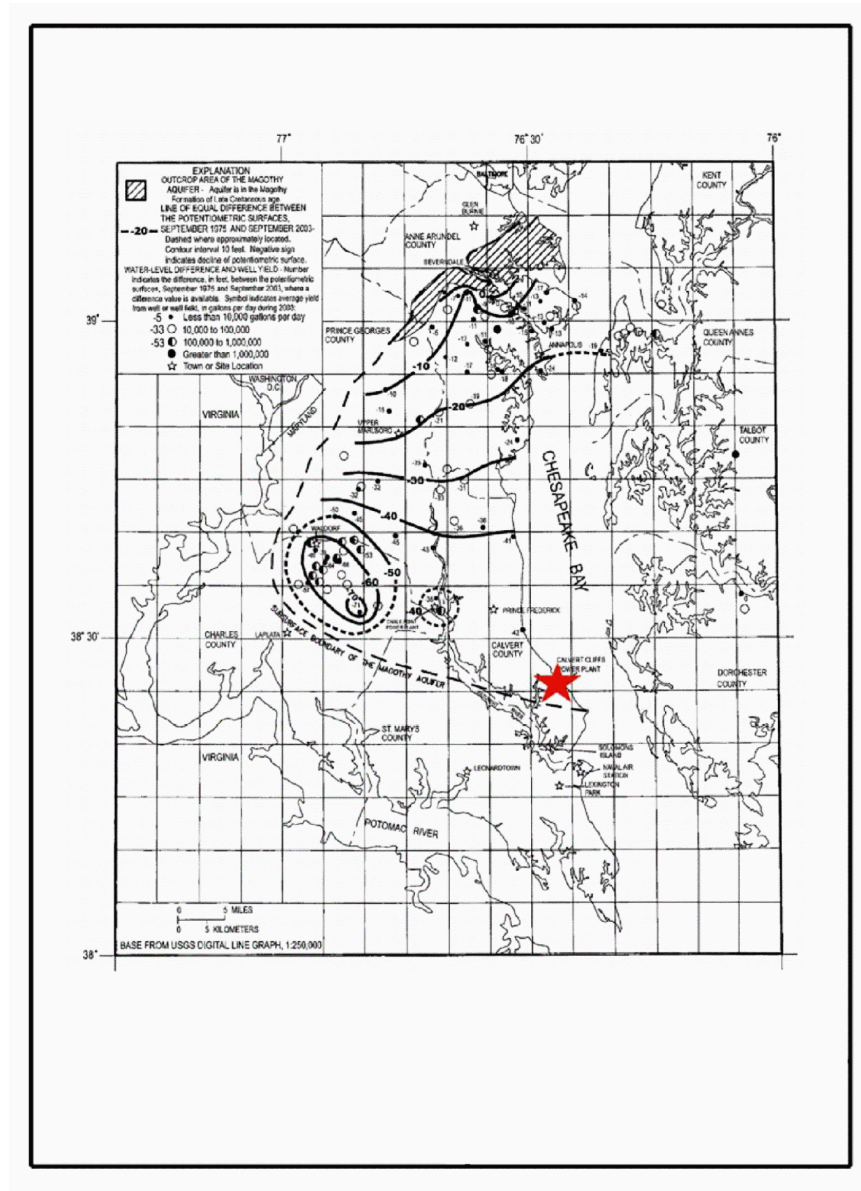


Figure 2.3-71 — The Difference Between the Potentiometric Surfaces of the Upper Patapsco Aquifer, September 1990 and September 2003, in Southern Maryland

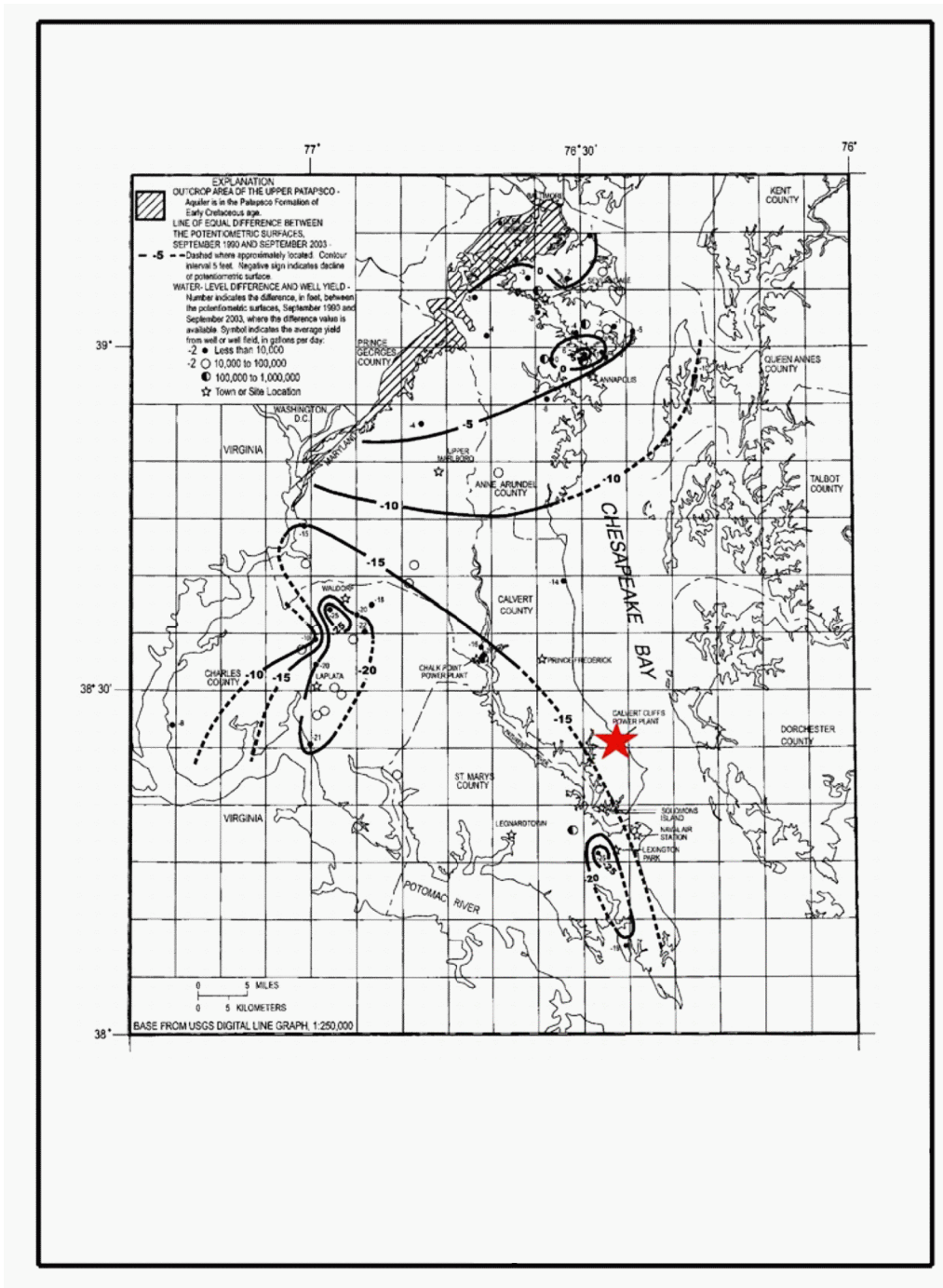


Figure 2.3-72—The Difference Between the Potentiometric Surfaces of the Lower Patapsco Aquifer, September 1990 and September 2003, in Southern Maryland

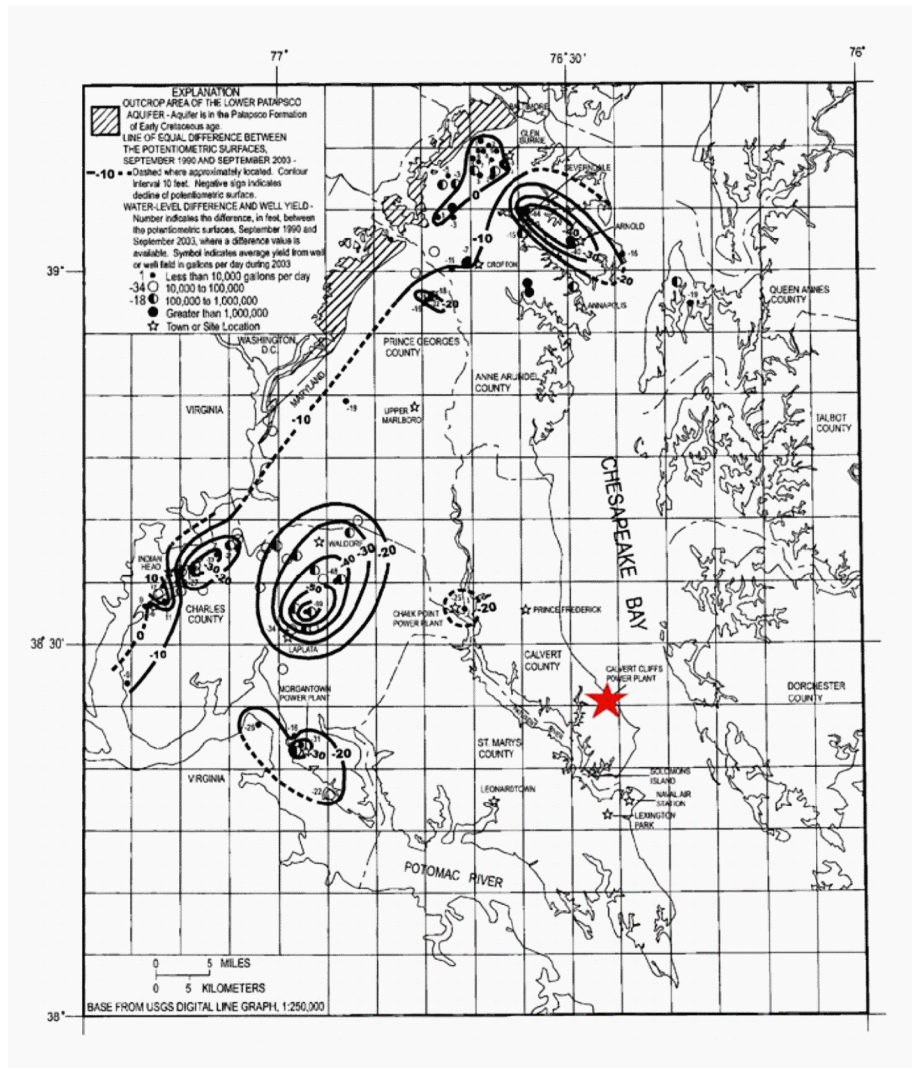


Figure 2.3-73—{Calvert County Grouped-Water-Level Monitoring Network, Location of Selected Water Level Monitoring Wells}

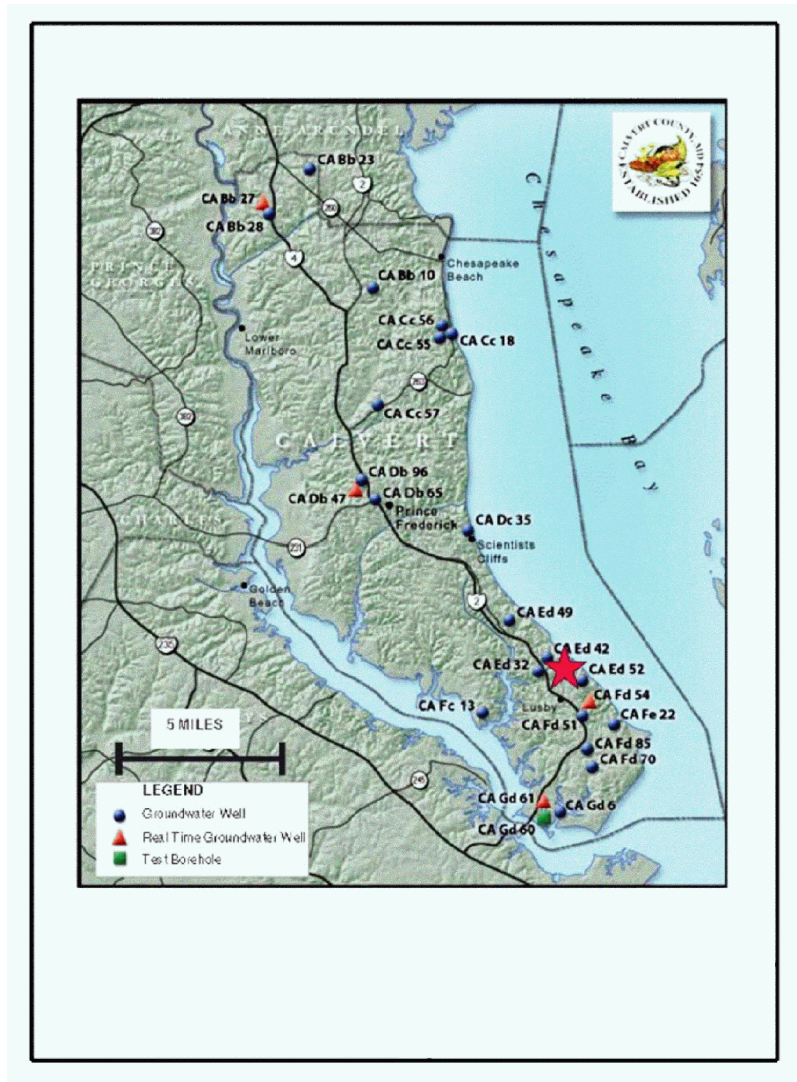


Figure 2.3-74—Well Hydrograph for Monitoring Well CA Fd 51 Screened in the Piney Point – Nanjemoy Aquifer at Calvert Cliffs State Park

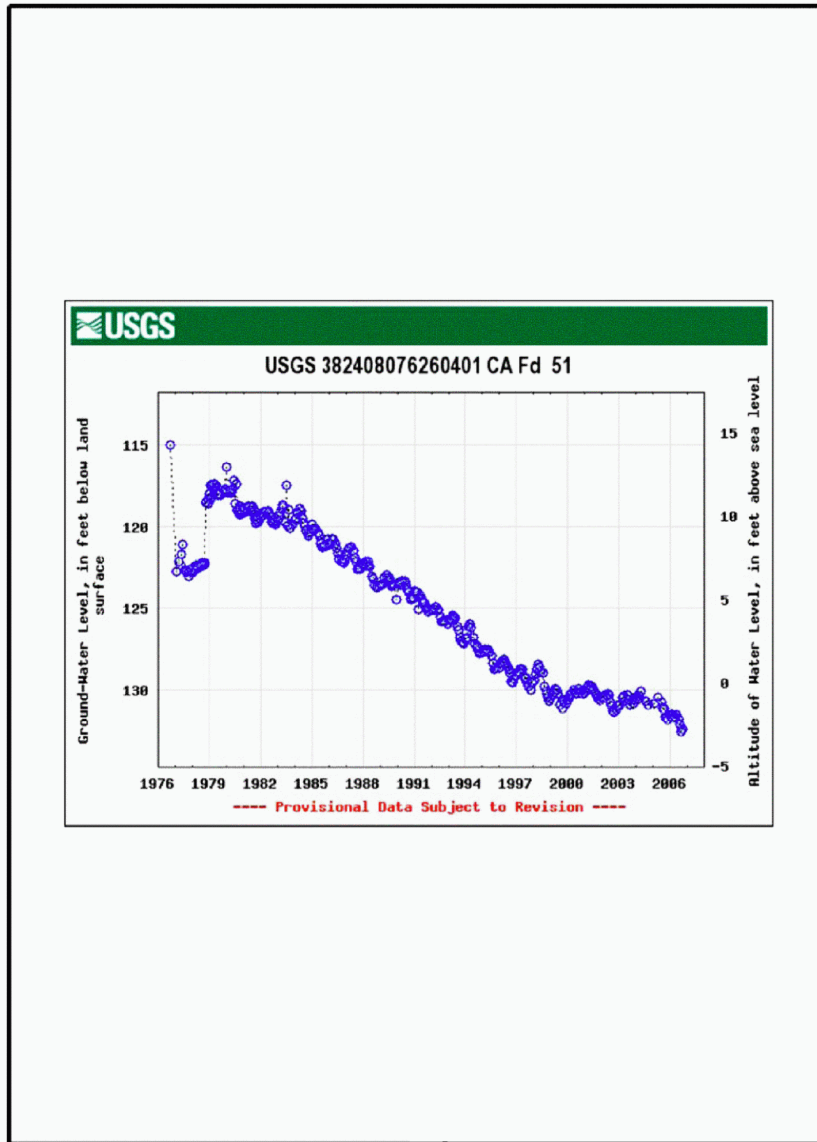


Figure 2.3-75—{Well Hydrograph Hydrograph for Monitoring Well CA Ed 42 Screened in the Aquia Aquifer at Calvert Cliffs Nuclear Power Plant}

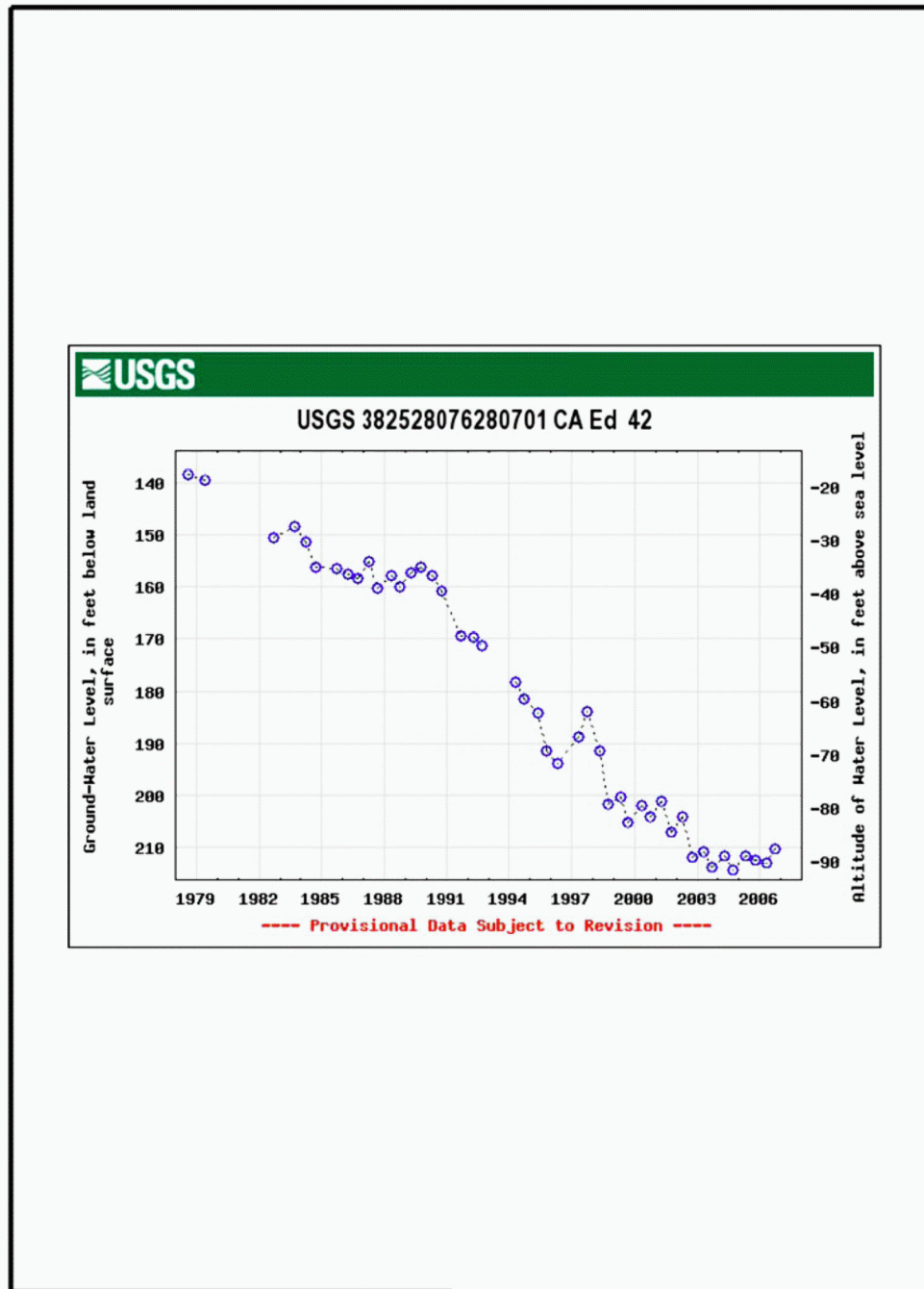


Figure 2.3-76—{Well Hydrograph Hydrograph for Monitoring Well CA Dc 35 Screened in the Magothy Aquifer at Scientits Cliffs}

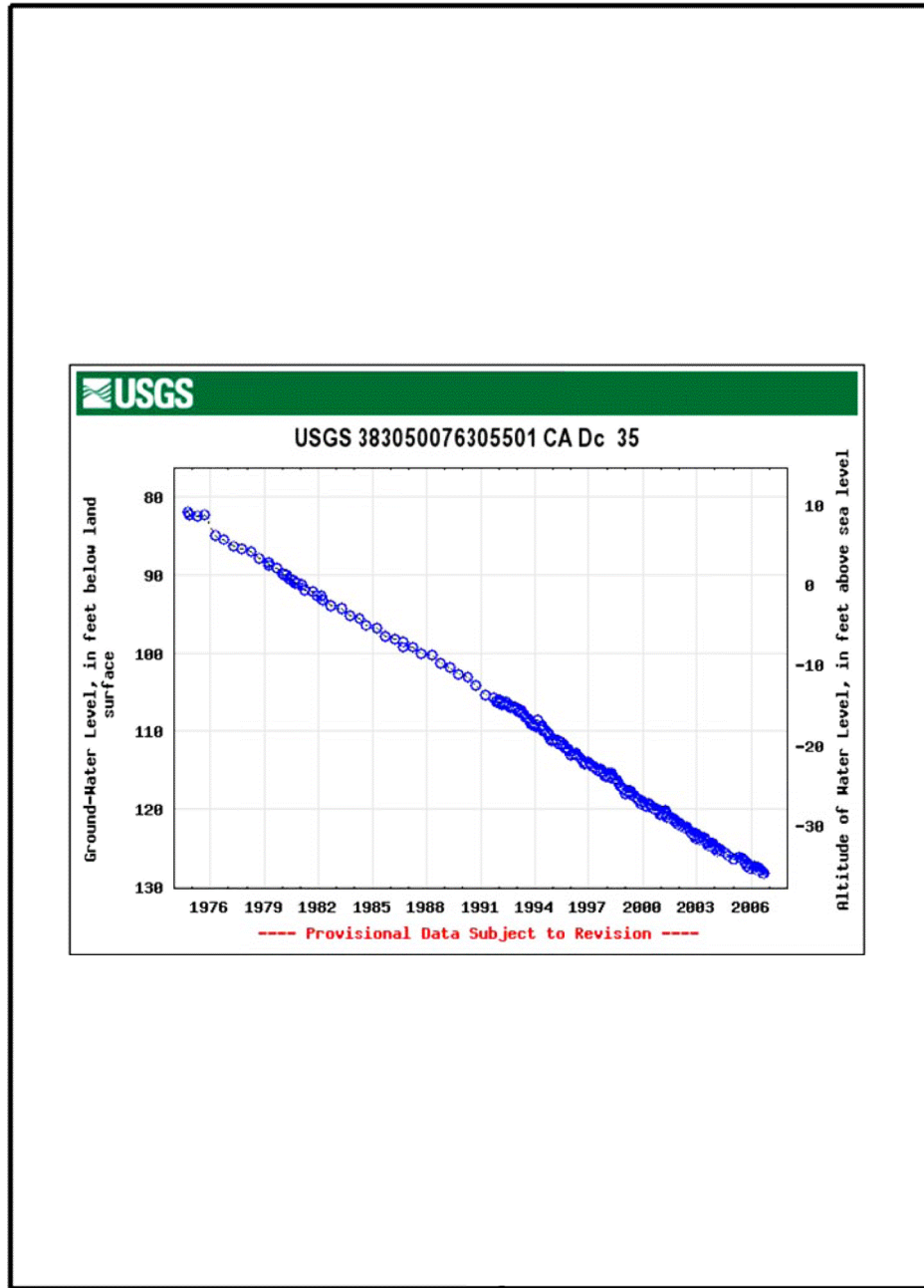


Figure 2.3-77—Well Hydrograph Hydrograph for Monitoring Well CA Db 96 Screened in the Upper Patapsco Aquifer at Prince Frederick

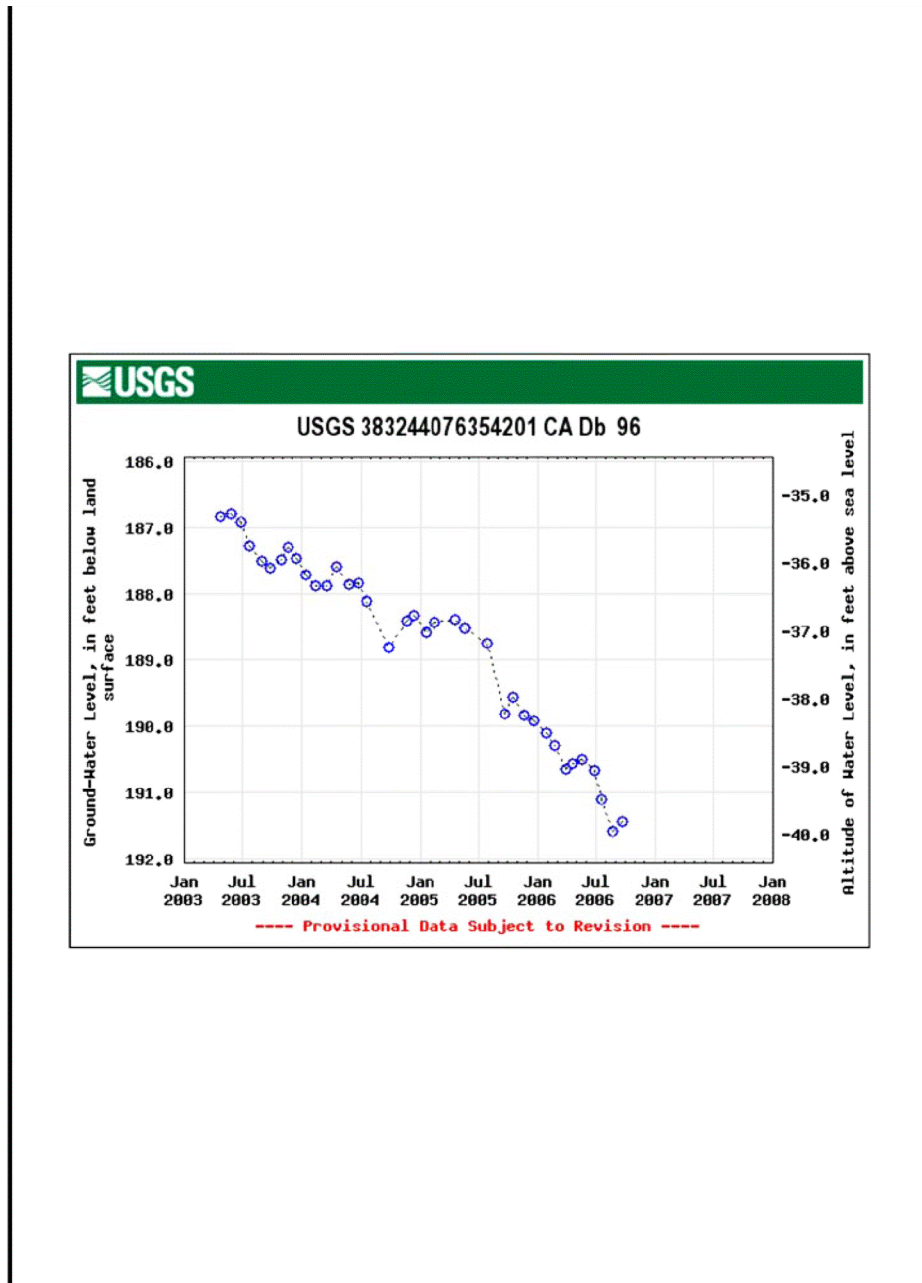


Figure 2.3-78—{Well Hydrograph Hydrograph for Monitoring Well CA Fd 85 Screened in the Lower Patapsco Aquifer at Chesapeake Ranch Estates}

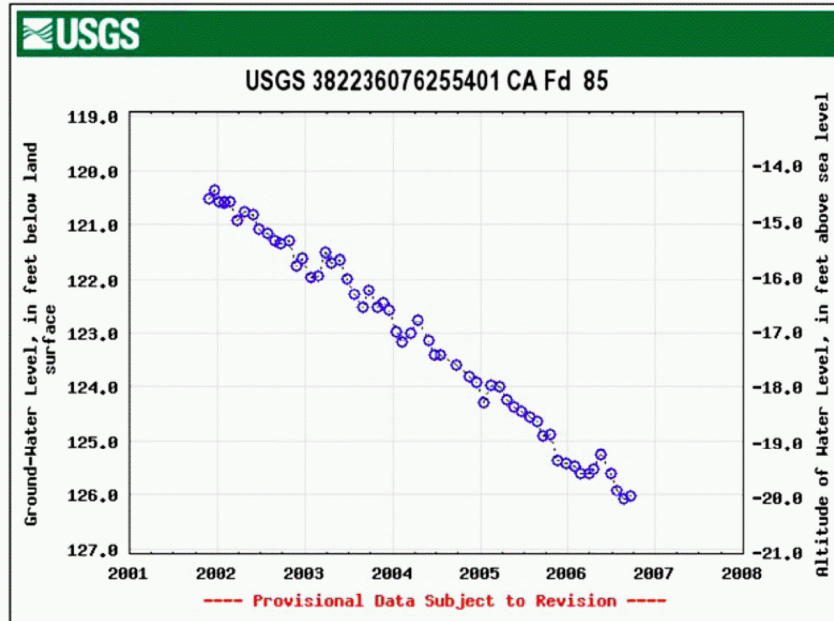


Figure 2.3-79—Modeled Post-Construction Depth to Surficial Aquifer Water Table Around Power Block 3

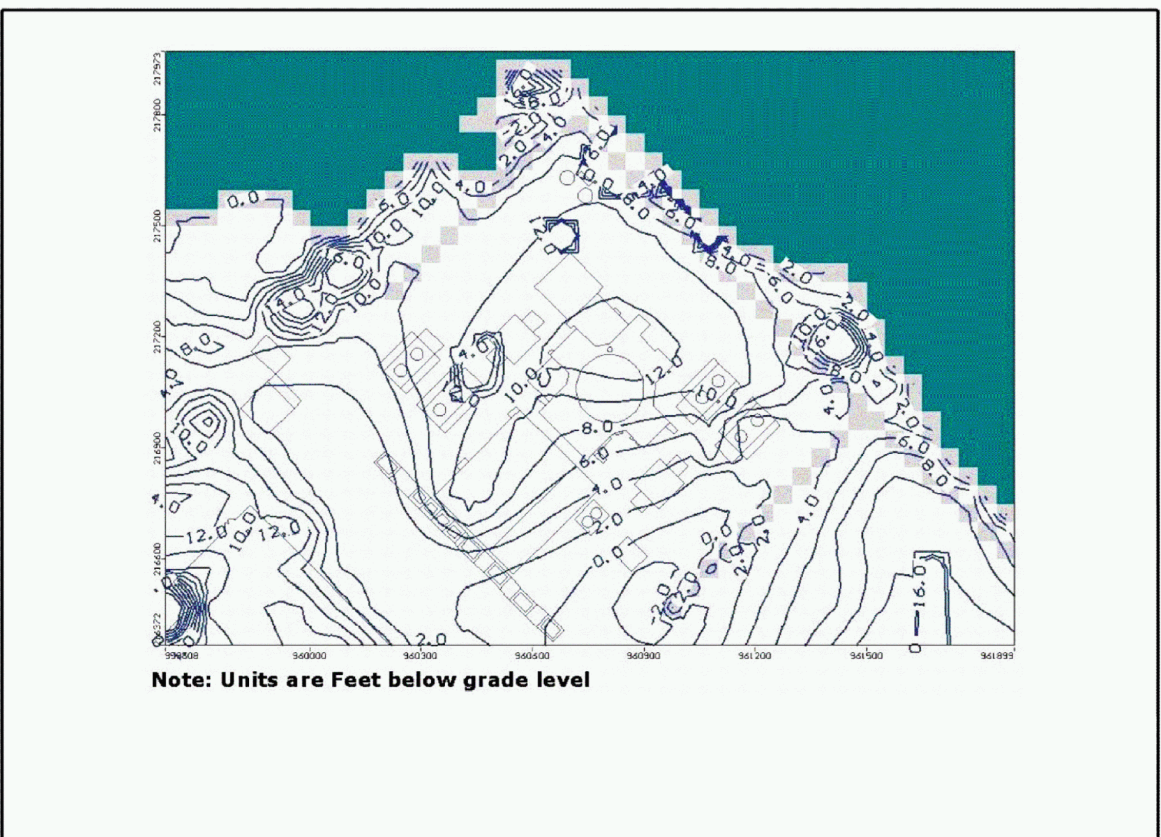
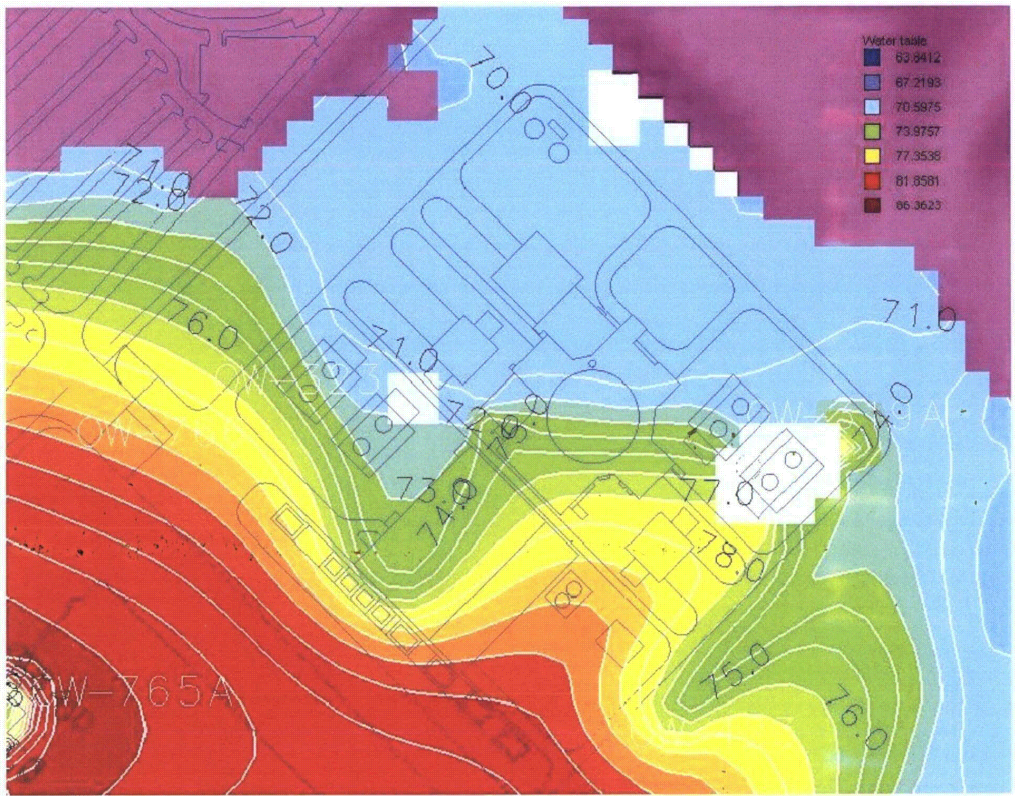


Figure 2.3-80—{Modeled Post-Construction Elevation to Surficial Aquifer Water Table Around Power Block 3}



Notes:

1. Contours are in Feet msl
2. Water Table is below base of the Surficial Aquifer at cells shown in “white”

Figure 2.3-81—{Chesapeake Bay WQ Monitoring Stations}

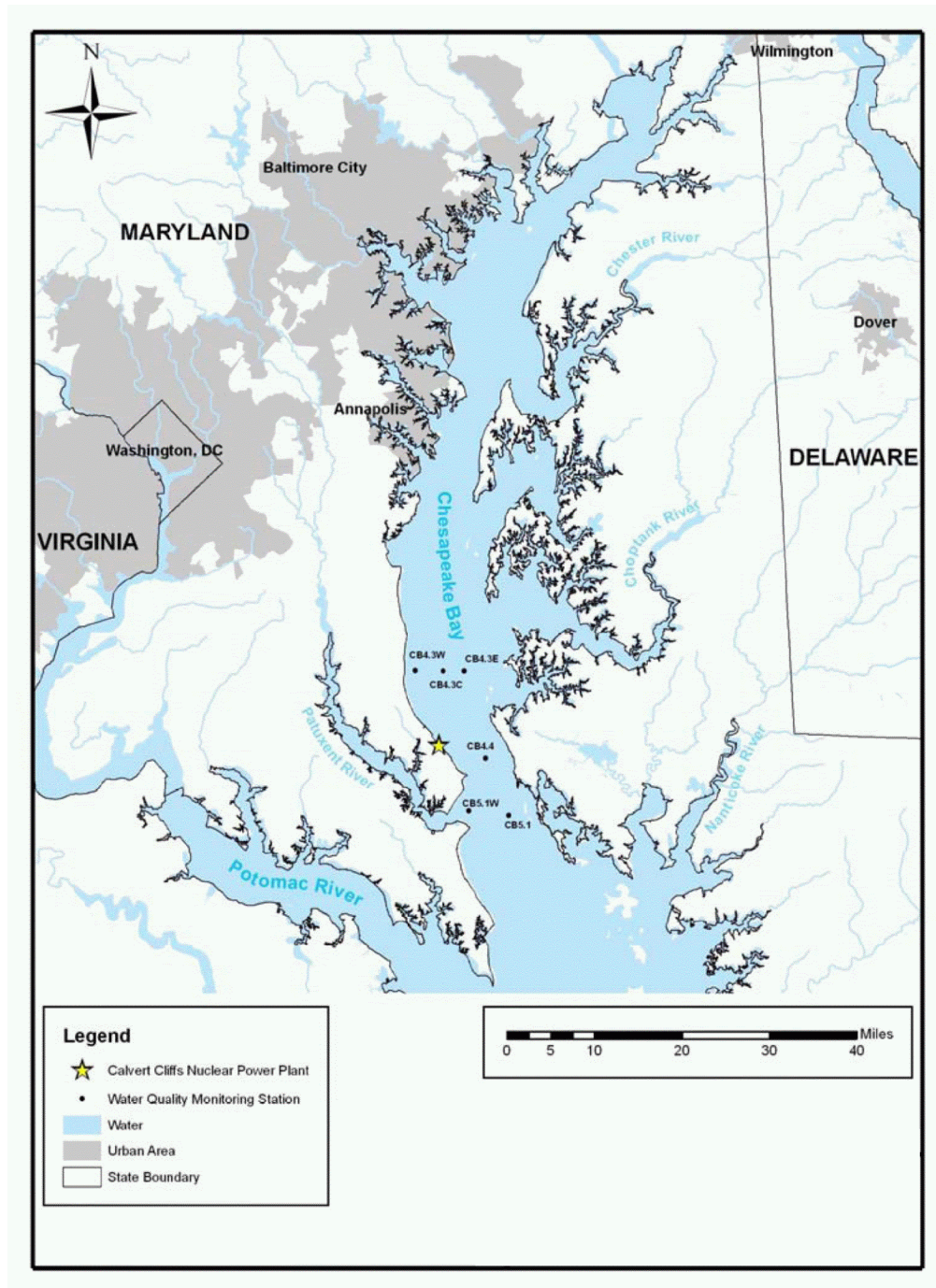


Figure 2.3-82—Location of Segments Used for Calculation of Inflow to Chesapeake Bay

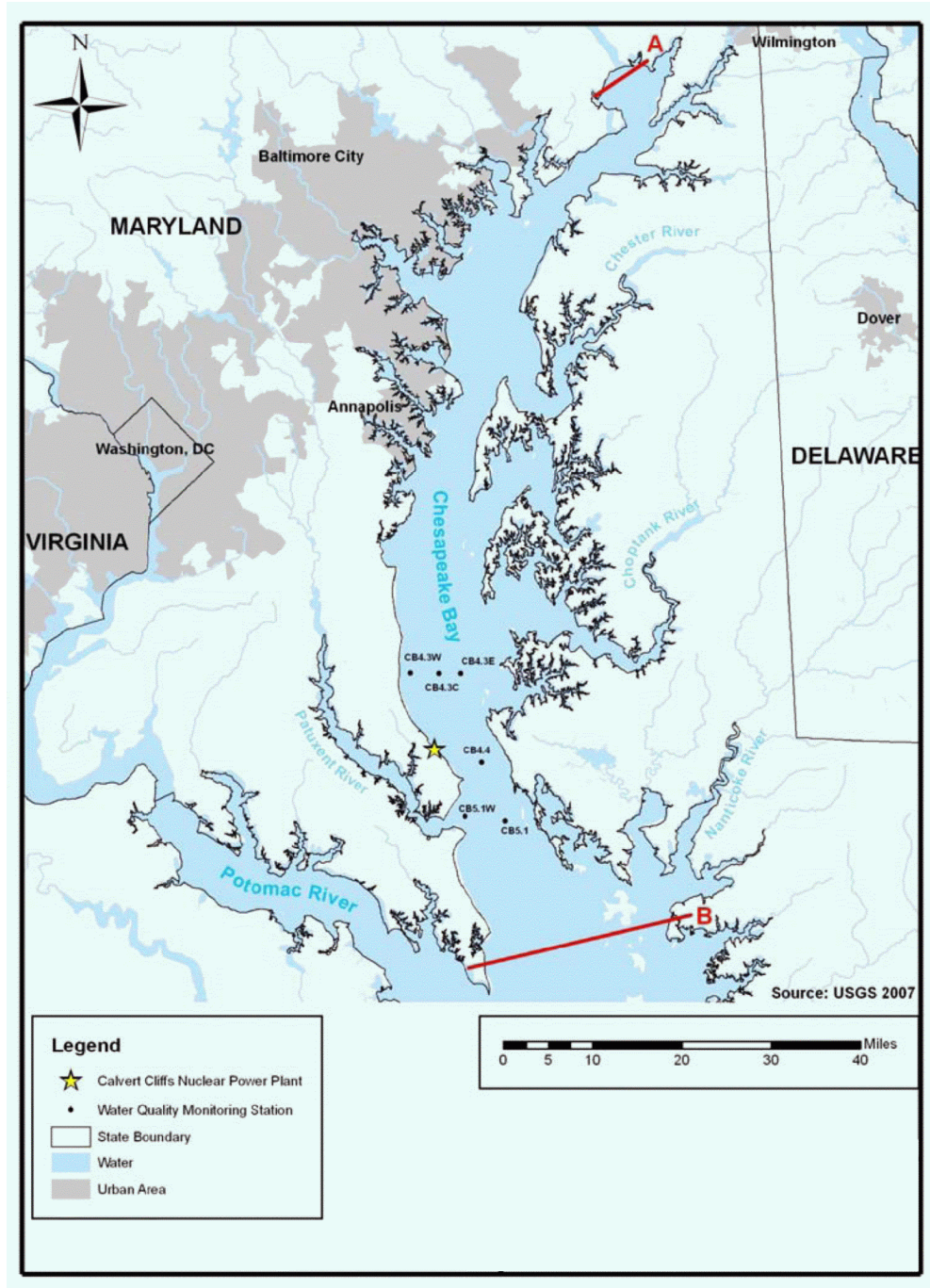


Figure 2.3-83—{CNPP Shoreline}

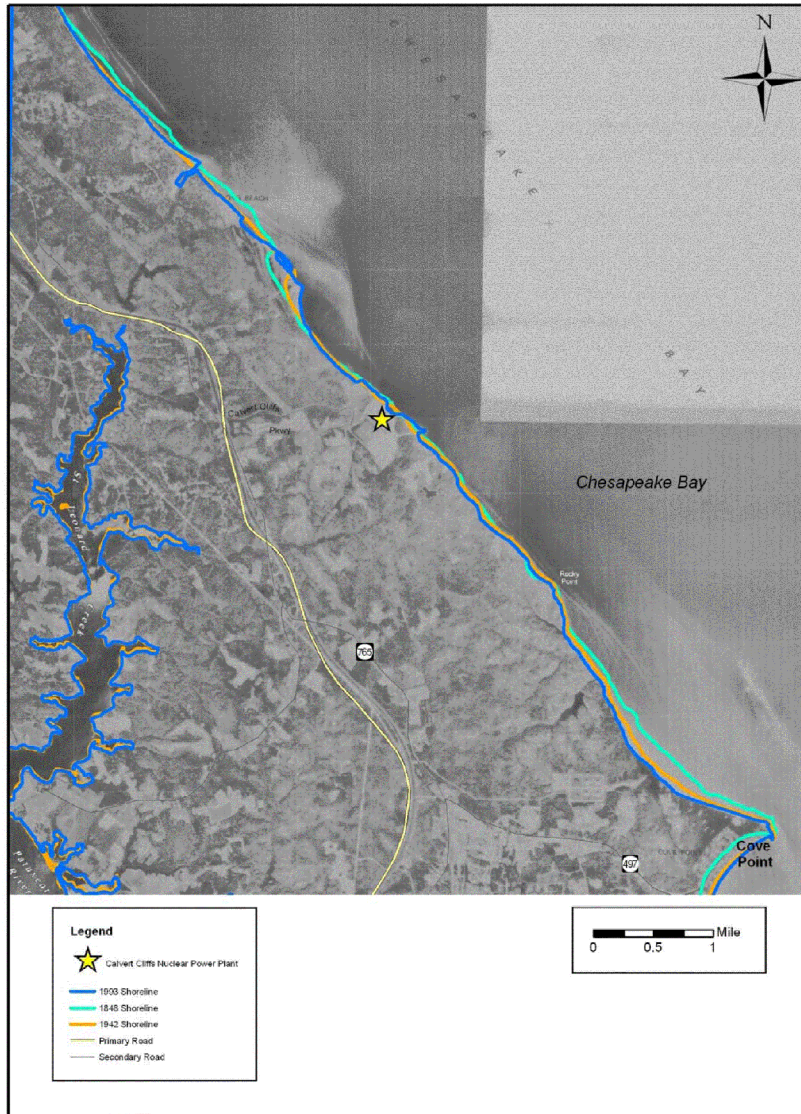


Figure 2.3-84—Sediment Sampling Locations in the Chesapeake Bay Near the CCNPP Barge Slip, September 2006

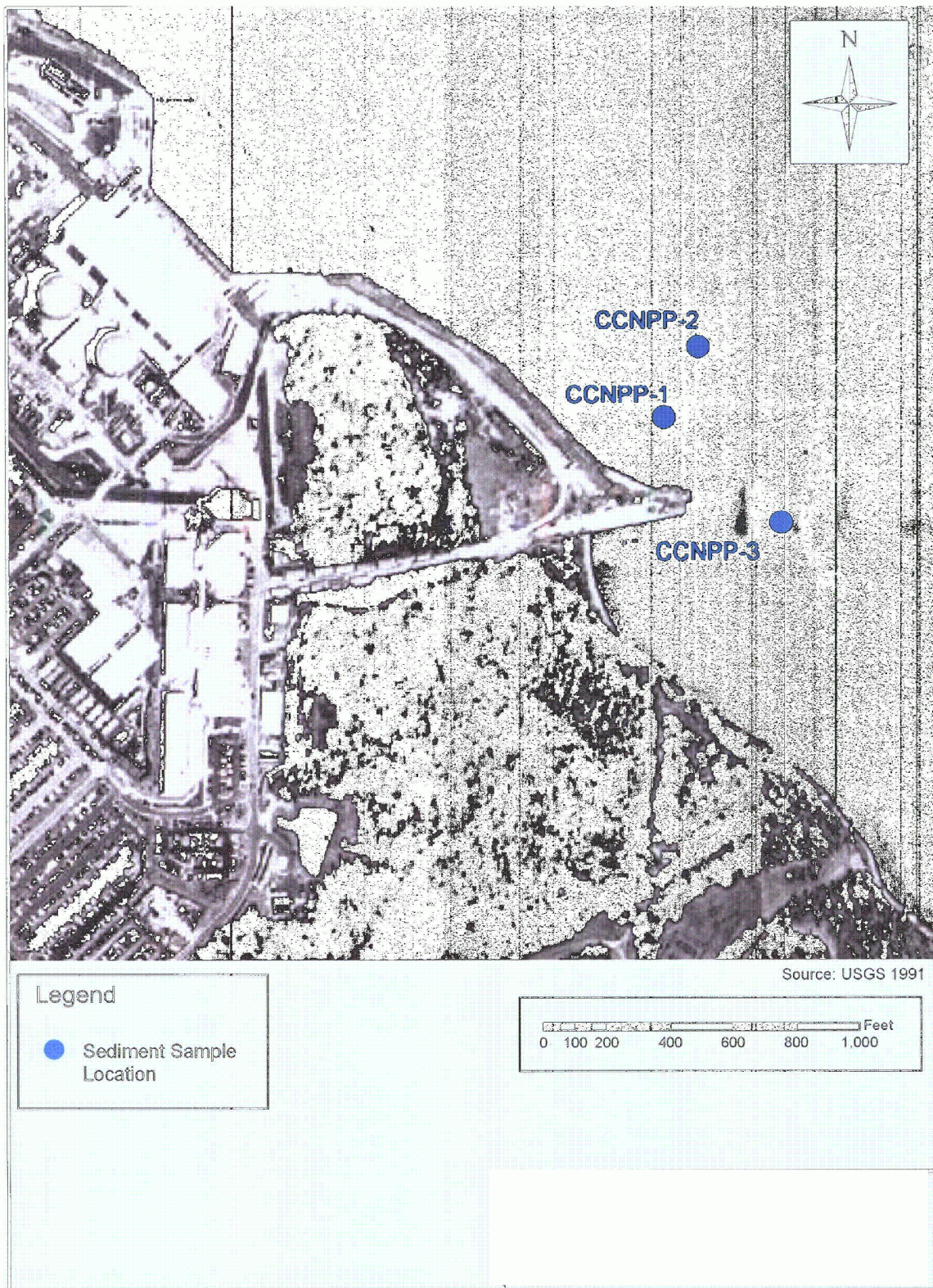


Figure 2.3-85—Groundwater Well Sampling Locations at CCNPP, May 2007

