




# Upper Merion Township Sinkhole Location Map

## 99 Sinkhole Location Areas of Potential Sinkhole Development

-  ZONE 1 - HAS A HIGH PROBABILITY FOR SUBSIDENCE ACTIVITY AND SINKHOLE DEVELOPMENT IN KARST TOPOGRAPHY AND IS UNDERLAIN BY HIGHLY FOLDED, STEEPLY DIPPING, SOLUTION AFFECTED AND PINNACLED CARBONATE BEDROCK FORMATIONS.
-  ZONE 2 - HAS A REDUCED PROBABILITY OF SUBSIDENCE ACTIVITY AND SINKHOLE DEVELOPMENT; SUBSURFACE MAY CONTAIN CARBONATE BEDROCK UNITS LOCATED BENEATH SURFACE COVER OF RESIDUAL SOILS AND / OR YOUNGER NON-CARBONATE BEDROCK UNITS.
-  ZONE 3 - NON-KARSTIC TOPOGRAPHY. SINKHOLE DEVELOPMENT HIGHLY UNLIKELY; HOWEVER, SUBSURFACE AND GEOTECHNICAL INVESTIGATIONS ARE RECOMMENDED FOR DESIGN OF STRUCTURES AS REQUIRED IN PROFESSIONAL ENGINEERING PRACTICE.