

Electrical Imaging Resistivity Fence Diagram of Profiles Showing Relationships of Subsurface Features at Location of Subsiding Bridge

Analysis indicates that a significant joint or fracture zone crosses the creek as shown resulting in several sinkholes and water loss further driving karst development. Deeper limestone bedrock has probably suffered a high degree of void development and skeletonization. Further karst development in and around the creek is likely to continue.

Orientations are approximate. Bedrock bedding strike is roughly ENE to WSW.

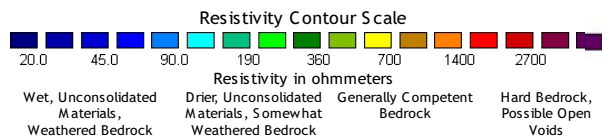


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Case history courtesy of



The northbound bridge piers began subsiding due to sinkhole activity along the stream forcing closure of the northbound roadway. SuperSting resistivity geophysics showed that most of the carbonate bedrock underlying the bridges to at least 200 feet was severely weathered except where the rock was dolomitic. Numerous test borings confirmed the findings of the geophysics.

