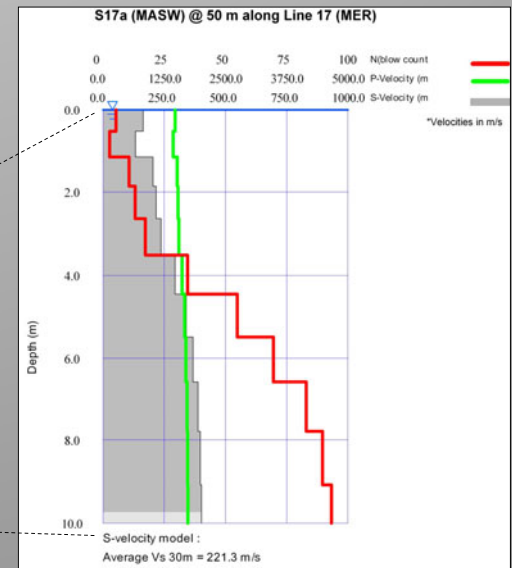
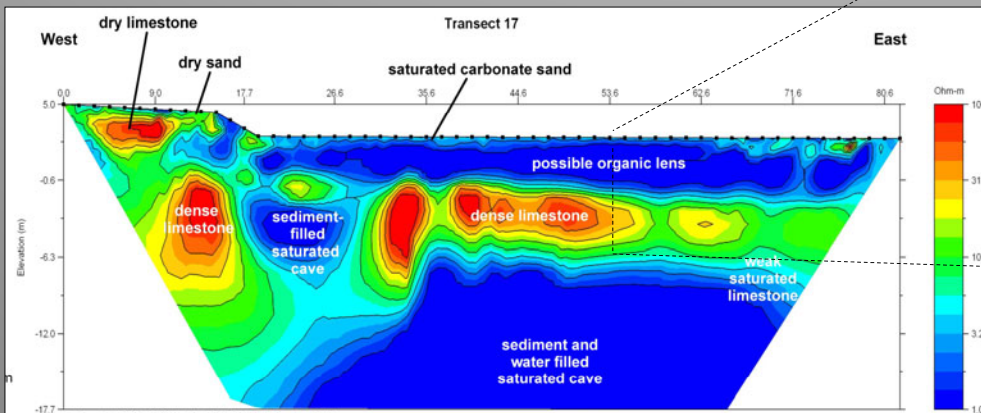
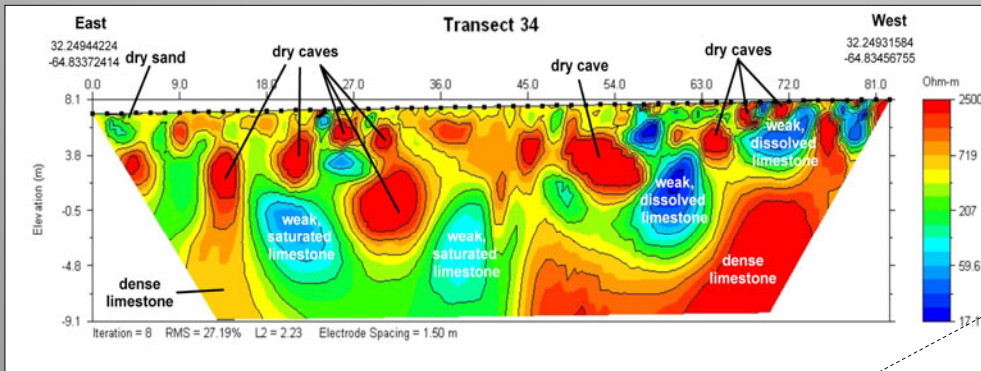




# Geophysical Survey of the Bermuda Coastline Utilizing MER and Seismic Analysis

A highly detailed geophysical survey was performed across a resort property along the coast of Bermuda. Our company incorporated both Multi-Electrode Electrical Resistivity technology and Multi-Channel Analysis of Surface Waves (MASW) seismic analysis in order to map the geology across the site. The work was performed in order to quantify the depth to rock across the area, as well as to identify potential karst features and other anomalous zones that could be problematic for excavation and construction purposes. The MER profiles helped to identify several dry and wet cave systems and also provided information on the competency of the limestone in the subsurface. The MASW profiles complimented the resistivity data by providing further confirmation of rock density across similar locations, as well as providing geologic data from the interior of the resort's buildings where MER testing could not be performed. The project generated an essential understanding of the site's geologic behavior, aiding in the successful planning of excavation and construction across the resort.



The MER profiles above provide two examples of the complex geology throughout the project site in Bermuda. The velocity data from an MASW shot (on the right) performed along MER Transect 17 shows the correlation between an increase in resistivity, interpreted as a transition from soft sediments into dry limestone, and a consistent increase in velocities across the same depths.