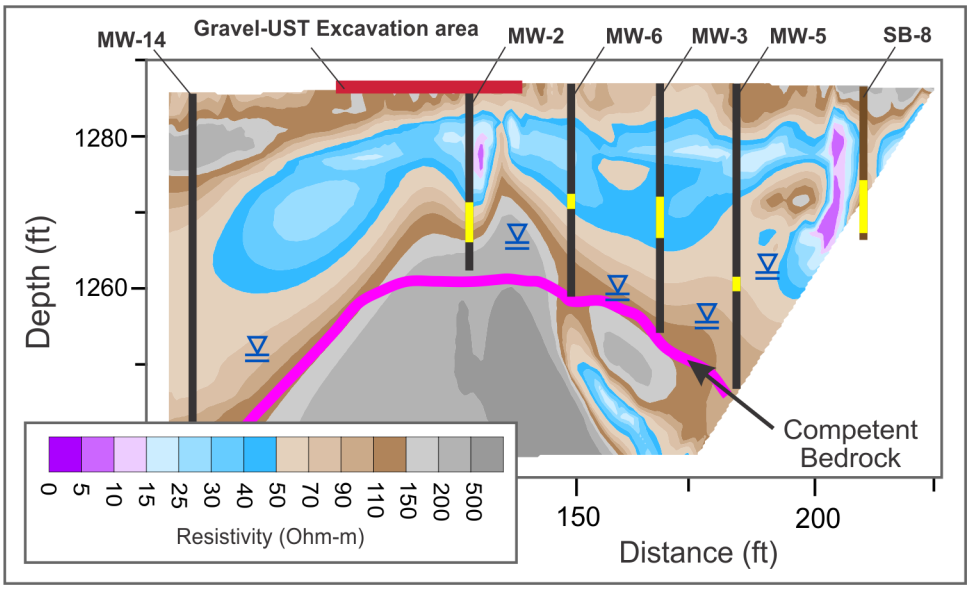
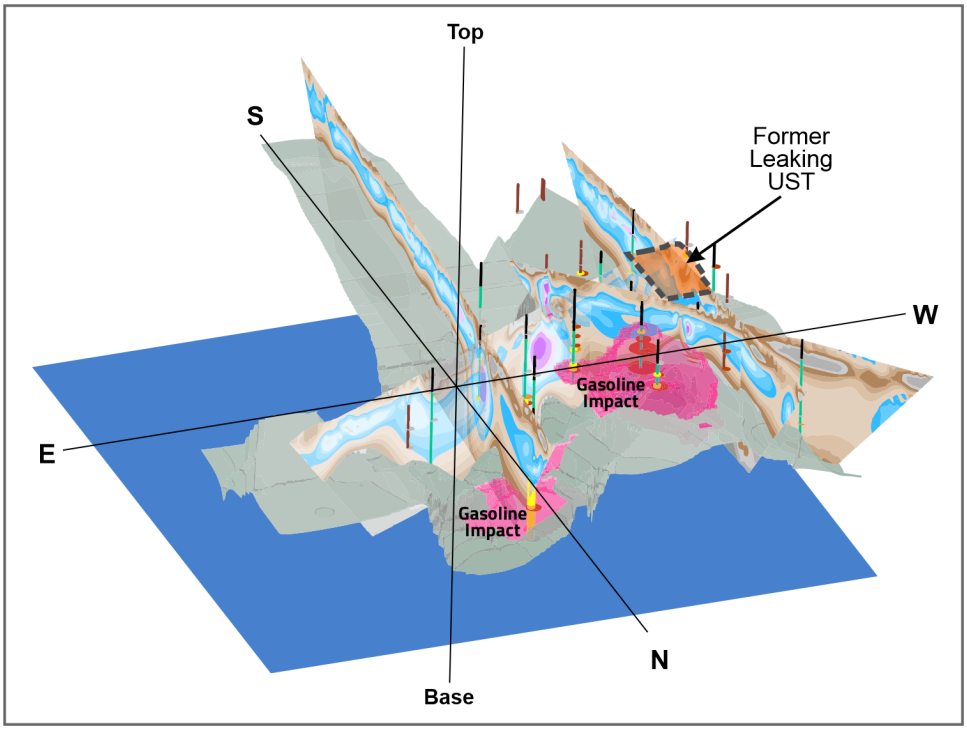
Case Study
Mapping LNAPL in Karst Geology

Aestus used our GeoTrax Survey™ 2D subsurface imagery integrated with historical and confirmation drilling/sampling data to develop a robust updated conceptual site model (CSM) based on multiple lines of evidence.



The updated CSM indicated hydrocarbon impacts appear in two distinct zones. Less degraded hydrocarbon impacts and free product are located in close proximity the former UST location. More degraded impacts occur on the pathway to the deeper filled sinkholes.



Results

- ☑ Better understanding of bedrock topography and sinkhole geometry which control contaminant distribution and migration
- ☑ Hydrocarbon migration pathway was delineated
- ☑ Horizontal and vertical extents of less weathered and degraded petroleum impacts were identified
- ☑ Targeted remediation zones were identified

More Certainty & Optimal Outcomes

Our client needed more certainty in their subsurface data. We integrated existing site data, our GeoTrax Survey™ electrical images, and targeted confirmation drilling data to yield a more complete understanding of the subsurface. This allowed them to:

- ☑ Make better technical/business decisions
- ☑ Have clear roadmap for next steps
- ☑ Achieve project goals faster and cheaper

Aestus

1.888.GEO.TRAX (436.8729) info@aestusllc.com www.aestusllc.com