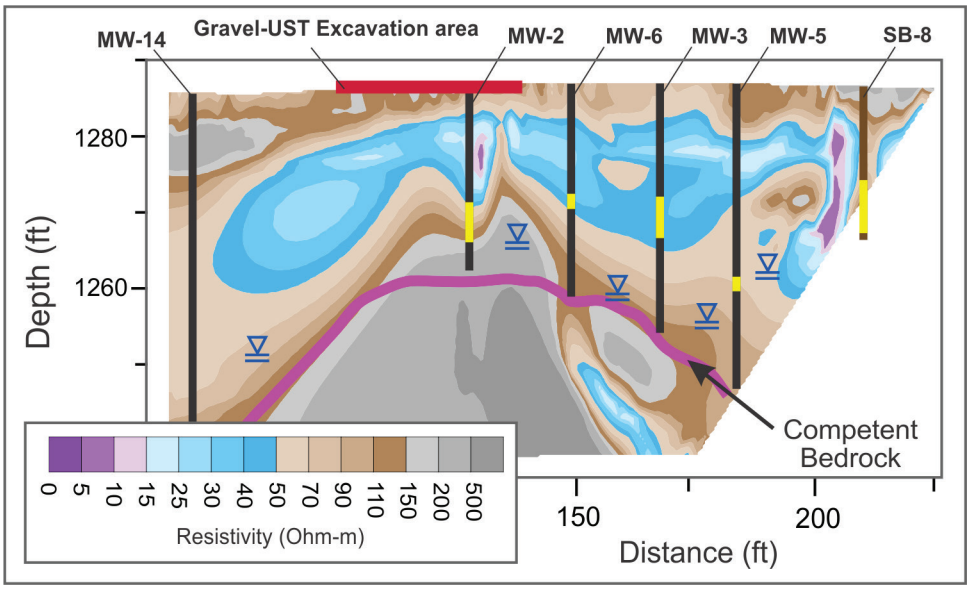
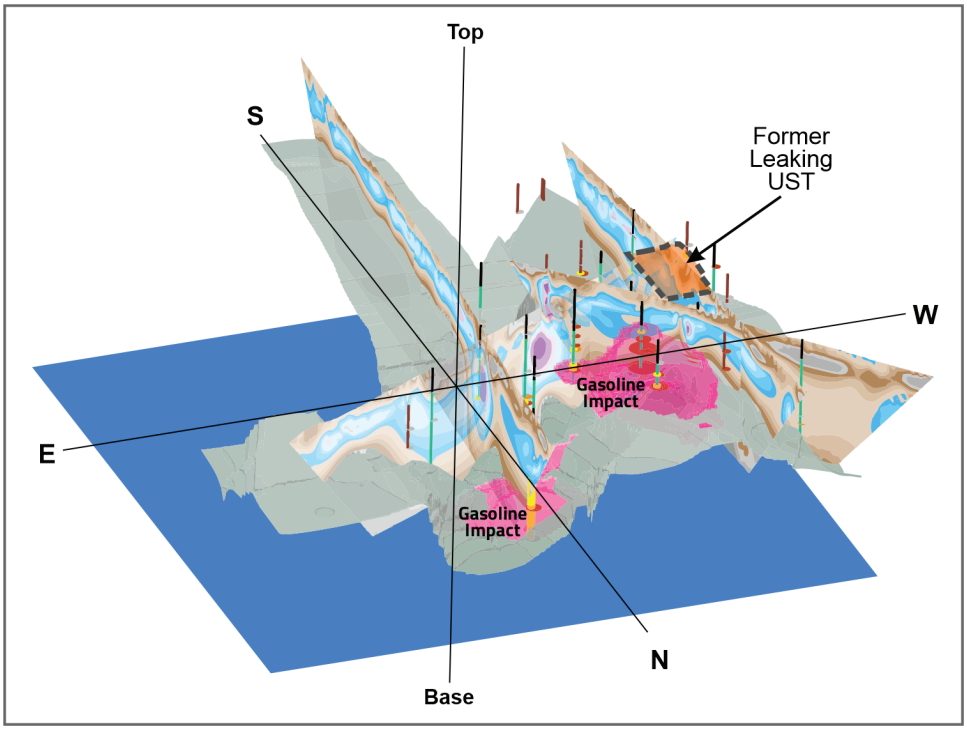
Case Study

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

Fiscally responsible and data driven water resource managers typically crave more certainty in their subsurface data. Integration of existing site data, Aestus' GeoTrax Survey™ electrical images, and targeted test well data resulted in a more complete understanding of the subsurface and allowed them to:

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

Aestus

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