



Near Surface Geophysics Innovations, LLC

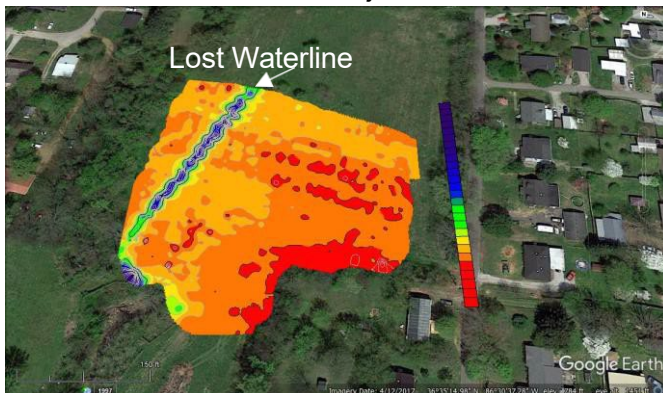
Bringing the Subsurface into View

Using Electromagnetic for Due Diligence

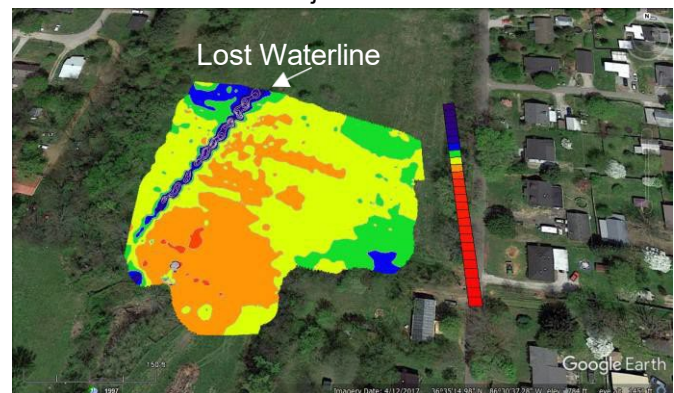
The Problem: The city wanted to potentially develop a property. However, lost records and rumors left them worried that an old Volkswagen was buried on the site. Due diligence was needed to locate and detect any buried objects.

The Details: NSG Innovations suggested using electromagnetics to do a quick sweep of the area to find any anomalies consistent with buried metallic objects. In a half-a-day, an electromagnetic study was completed. An anomaly was seen in the data and the client was notified that there was indeed a buried metallic body on the property, however the dimensions were not of that of a car.

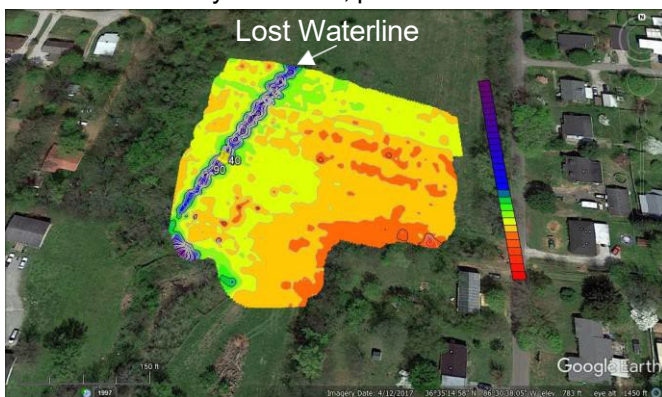
3kHz Quadrature Survey: Soil Changes/ non-metallic objects



3kHz In-Phase Survey: Detection of metallic objects



3kHz Conductivity Survey: General conductivity of the soil, presence of water



Conclusion: Upon further study, the anomaly was determined to be a waterline cutting through the property that had been lost in the city's records. An active waterline, it was found to be leaking based on the large conductivity around the pipe in the conductivity and quadrature surveys. The data was exported to Google Earth for the client to easily see where the pipe was located spatially to adequately prepare for developing the site. We were asked back to do further due diligence as well as aid in their new storm water disposal plan on where to best place storm water conveyances in the future (used electrical resistivity to find caves to inject storm water into).

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