



Near Surface Geophysics Innovations, LLC

Bringing the Subsurface into View

Understanding the Footprint of Previous Infrastructure

The Problem: The City of Lawrenceburg, IN inherited a site near the Riverfront that at one time was a large Grainery. The large infrastructure required substantial foundations. Demolition of above ground facilities left a large open field with little indication of what lies below. Where are the old foundations located?



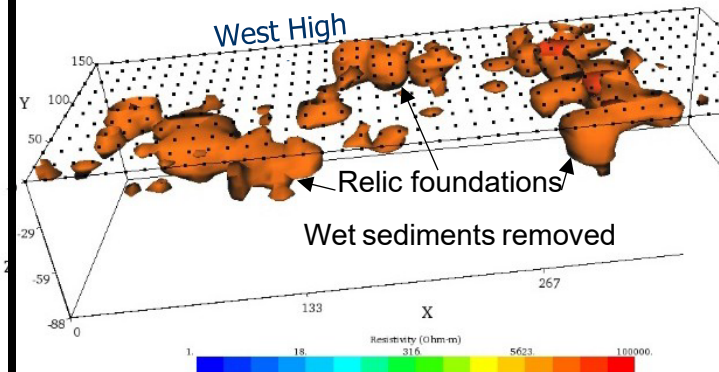
The Details: The City wanted to put the property on the market. Potential buyers included high occupancy residential markets with the potential need for underground parking. As a marketing strategy to show potential clients development opportunities the City wanted to bring the subsurface into view.

The Solution: Conduct a series of 420 foot long two-dimensional Electrical Resistivity profiles every 15 feet and combine them into a three-dimensional tomographic image of the space below the earth's surface.

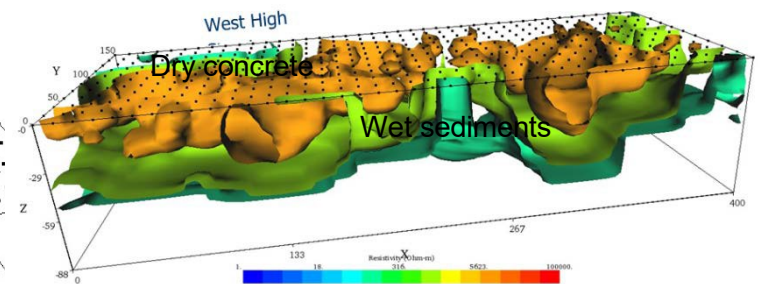


The Process: Combine the 11 two-dimensional lines into one three-dimensional image. The cooler blue colors represent water bearing material and the warmer orange cooler dry material.

3D Resistivity Contour Plot



3D Resistivity Contour Plot



The End Result: Remove the conductive soils leaving behind the dry resistive concrete foundations. A view of the old foundation comes into view. Developers can now design around the structures or calculate a cost estimate to remove the old foundations

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