

# Site Investigation

## Are questions about a site limiting its value?

Thinking about buying or selling a piece of property or making improvements on a remote corner? Not sure what is underground? Afraid of an environmental nightmare?

Virtual Underground uses an advanced Ground Penetrating Radar array to find a variety of underground obstructions including utilities, tanks, drums, cavities, and foundations. The final product is a map of the site with the objects of interest clearly marked. The map is delivered in both printed and CAD format. As changes are made to the site, the map can be updated. Larger projects can be performed in phases and linked together upon conclusion.

With this map, many important decisions can be made about the future of a site -- such as development, sale or environmental remediation.

## We leave your site just as we found it

Our service is non-invasive. If problems are found and environmental remediation is necessary, the accurate locations and depths that we provide will help determine the next course of action (location of excavation, monitoring wells, etc.) making the cleanup process faster and less costly.



## Advantages

- Depth
- Non-Destructive
- Cost Effective
- Accurate
- Permanent Record
- Sees All Common Materials:  
Metal, Plastic, Concrete

- Find Buried Tanks and Drums
- Delineate Cavities, Sinkholes, Bedrock
- Locate Buried Construction Debris

- Map Utilities
- Find Underground Injection Wells
- Map Buried Foundations and Structures



## Virtual Underground Flexibility

Most services that look for buried tanks use portable 2-D radar systems (pictured left). These are best suited for locating in small or confined spaces. When larger areas need to be investigated, single channel systems are very inefficient and poor at resolving complex underground conditions. Virtual Underground's breakthrough multi-channel 3-D array radar system -- the *TerraVision*<sup>™</sup> (developed by Geophysical Survey Systems, Inc.) -- is capable of collecting data over larger areas in a short amount of time. By creating a large continuous radar image of the sub-surface, Virtual Underground's technique reveals complex structures and multiple buried objects. We employ both 2-D and 3-D radar systems as needed for each project.

## Search for the Past

Our system is also capable of finding the remains of the past. Building foundations, walls, grave sites and other archeological features can be identified. The geology of a site can also be mapped to delineate features such as bedrock, water tables and sink holes.



# Virtual Underground

## Services Offered

Pre-Construction Planning  
Site Investigation  
Environmental Site Characterization  
Infrastructure Mapping  
Facility Mapping  
Forensic / Archeological Assessment  
Cemetery Mapping

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