



“Quality, Reliability and Integrity -  
that’s our promise to you!”



## Geophysical

Subsurface Detection that Prevents  
Time Losses and Saves Lives

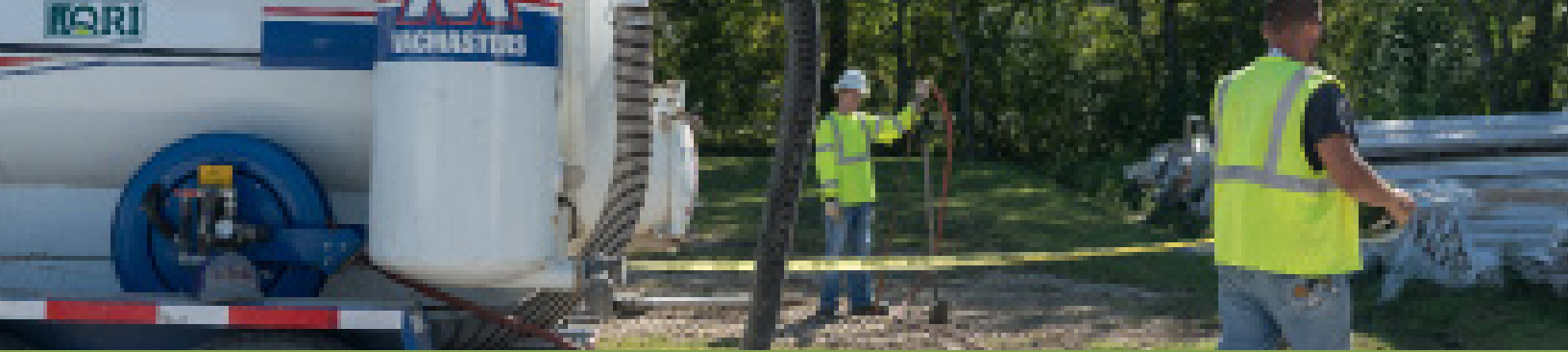
QRI’s Geophysical Division was founded in 2004. Our crews can mobilize within 24 hours and as little as 8 hours – this prompt mobilization prevents costly construction delays. Additionally, pre-excavation identification of utilities prevents losses and saves lives. QRI has successfully mapped utilities, rebar & post tension cables, intraslab & sub slab voids, USTs, buried drum debris fields, and contaminants using a combination of technologies supporting global positioning systems (GPS). QRI goes beyond One Call locates on public easements and performs private utility locating.

QRI has developed a non-intrusive geological mapping technology called Pulser™. Pulser™ defines underlying geology to a depth of 350 feet without extensive drilling. Using subsurface data visualization software, Pulser™ data is transformed into 2D and 3D representations of stratigraphy and lithology.

**Top clients in this Section include:** Gulf Power Company, CH2M Hill, Wink Engineering, Stratum Engineering, Beta Testing, Mexichem Fluor, PPM Consultants, Palmisano Contractors, Denka Performance Elastomers and GeoEngineers.

**Top industrial facilities include:** Dupont Pontchartrain Chemical, Phillips 66, Sasol and BP Lubricants.





# Services

Concrete Surveys  
Cultural Site Surveys  
Electromagnetic (EM) 31 / 38 Surveys  
Infrared Thermal Imaging  
Ground Penetrating Radar (GPR) Surveys

Resistivity Surveys  
Pulser™ Subsurface Stratigraphic Mapping  
Underground Storage Tank (UST) Surveys  
Utility Locating  
Vacuum Excavation



Subsurface  
Stratigraphy Survey

QRI defined the stratigraphy in the upper 100 feet on 56 acres in Hawthorne, California utilizing the Pulser™ Subsurface Survey System (Pulser™) in conjunction with existing databases. Previous lithologic studies presented chaotic bedding relationships that made it difficult to correlate from well to well. As a result, the Pulser™ technique was utilized to develop the stratigraphic framework for the site conceptual model. Pulser™ mapping non-intrusively delineated and refined stratigraphic units across the project site.



GPR, Utility Locating &  
Vacuum Excavation

QRI provided GPR, EM utility locators, and air knife/vacuum excavation services at 33 retail gasoline distribution sites in the New Orleans and Baton Rouge areas. This utility clearance protocol was a required safety measure performed prior to environmental drilling activities. QRI cleared over 350 boreholes on schedule and with zero lost time.



GPR & EM  
Surveys at  
Historical Sites

QRI has performed GPR and EM surveys at multiple historic sites to identify potential anomalies representing historical artifacts or other items of archaeological significance such as burial grounds and historical foundations. Once field acquisition is concluded, basic post-processing is applied to the data collected. QRI provides a report presenting the coordinates and approximate depths for each anomaly detected.