

Geophysics and Subsurface Investigations

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Geophysical Services and Methods

Various geophysical methods are used to investigate the subsurface geological environment for siting ground-water supply wells, studying the occurrence of ground-water contamination, assessing geologic hazards, providing field-based quality control and assurance of consultant geophysical surveys, and for archaeologic investigations. The following electronic glossary elucidates the different geophysical methods.

- [Magnetic](#)
 - [Electrical resistivity, Induced Polarization \(IP\) and Spontaneous Potential \(SP\)](#)
 - [Electromagnetic \(EM\): Terrain conductivity, Transient EM \(TEM\), Ground-Penetrating Radar \(GPR\) and Very-Low-Frequency \(VLF\) EM](#)
 - [Seismic Refraction and Reflection](#)
 - [Gravity](#)
 - [Borehole geophysics](#)
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[Geophysical Publications](#)

Geophysical Links

- [U.S. Geological Survey \(USGS\)](#)
- [National Geophysical Data Center \(NGDC\)](#)
- [Geologic Society of America \(GSA\)](#)
- [American Association of Petroleum Geologists \(AAPG\)](#)
- [Society of Exploration Geophysicists \(SEG\)](#)
- [Environmental & Engineering Geophysicists Society \(EEGS\)](#)