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groundwater and conditions under which it occurs. • It provides information about location, thickness, composition, permeability and yield of the aquifer. • It also provides information about the location, movement & quality of groundwater. The echoes are detected by electronic devices called geophones which receive the reflected sound waves and the data are recorded on magnetic tape which is printed to produce a two-dimensional graphic illustrating the subsurface geology. Offshore surveys are conducted in a slightly different manner.

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Geophysical methods are widely applied to the detection and delineation of diverse near-surface targets, typically exploiting contrasts in the subsurface distribution of a number of physical properties (e.g., magnetic susceptibility, density, and electric conductivity). Constraining the target's chemical composition is often of secondary importance.

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• Magnetic field methods 2.1.3.1.2 GEOPHYSICAL MEASURES can also be applied in the subsurface and above the earth's surface. Down-hole application of geophysics provides in situ measurements adjacent to the borehole or across the medium to the surface. Subsurface applied geophysics gains detailed insight into the adjoining earth materials.

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From the Ground: Typical geophysical methods collected from the ground include gravity, electromagnetic, magnetotellurics, magnetic, and limited industry seismic-reflection. Project geophysicist Ben Drenth conducting gravity surveys to better understand subsurface geology.(Credit: David Fitterman, USGS Emeritus. Public domain.)

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1.2. Geotechnical and Geophysical Methods Several geotechnical and geophysical methods are useful for modern subsurface investigation. In this study widely available, simple and low cost geotechnical and geophysical methods are used. Brief summary about geotechnical and geophysical methods used in the study are presented.

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