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# AusAEM is the world's largest airborne electromagnetic (AEM) survey undertaken.

AusAEM started in northern Australia and continues to be extended across the continent. The AEM method enables mapping of the subsurface electrical conductivity of rocks, sediments and waters to depths of up to several hundred metres, depending on the electrical conductivity of the sub-surface.

AEM is a non-invasive testing technique that can detect variations in the conductivity of the ground to a depth of several hundred metres. The conductivity response in the ground is caused by the presence of electrically conductive materials, such as salt or saline water, graphite, clays and sulphide minerals.

The groundwater community uses AusAEM data and derived survey results to assess the potential for groundwater resources in Australia's arid zones to support remote communities within the survey areas.

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