

## (SEISMIC REFRACTION TOMOGRAPHY)

An Active Source Surface Wave Technique for Measuring Compressional Wave Velocity (Vp)

## **ADVANTAGES**

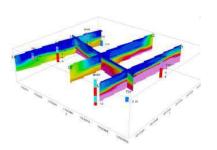
- Non intrusive: no boreholes required, all equipment is deployed on the surface
- / High resolution lateral variability in profiles
- Portable and versatile: equipment can be deployed in most areas of open ground
- Sensitive to velocity inversions

## **SPECIFICATIONS**

- / Twenty-four 4.5 Hz geophones deployed in a line at usually 1 3 m spacing
- Depth of investigation equal to approximately quarter of the array length: up to 10 m
- Source can be a sledgehammer or a vehicle mounted 40 kg Accelerated Weight Drop (AWD)
- Results can be displayed as 2D profiles or a 3D model constructed from multiple profiles
- / Topographic variation can be accommodated

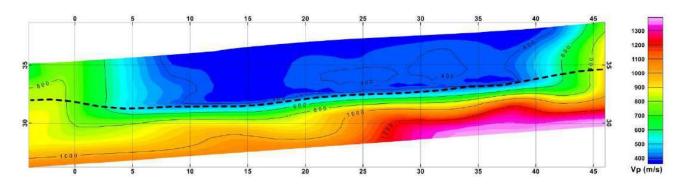
## **APPLICATIONS**

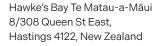
- / 2D section of compressional wave velocity
- / Inference of engineering parameters: Young's modulus, shear modulus
- / Liquefaction Assessment
- / Ground Improvement QA
- / Drillhole Targeting











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