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cook | costello GEOPHYSICS

Seismic Services

COST EFFECTIVE

Remarkable value for money compared to using conventional techniques alone. Being better informed about the site means being able to optimally design an invasive follow-up survey. This can lower the overall capital outlay and reduce legal implications.

RAPID COVERAGE

Depending on method and conditions, up to about 2-5 km of geophysical data can be acquired per day. Sometimes draft results are already available on site, which means a survey can be flexibly adjusted.

MINIMALLY INVASIVE

Can be carried out in urban areas, on pavement or landscaped areas without disturbing the surface. No excavation means also minimal exposure to buried hazards.



- Does your geotechnical investigation require knowledge of the site's seismic velocity profile for earthquake engineering purposes?
- Do you need to know at what depth you'll find solid rock for your pile or anchor designs?
- Are you worried about voids below your structure's foundation?

Then you should talk to our experts!

Our Equipment – Your Advantages

We are proud to use one of the most flexible and robust seismic acquisition system currently on the market. Us using the German manufacturer DMT's Summit X One has also many benefits for you as a client! Here are some of the obvious ones:

- Having world-leading equipment means achieving optimal data quality.
- Snap-on technology means not missing out on the perfect solution for your project because of restrictive cable outlets. You will get a survey tailored to your needs not tailored to the systems' restrictions.
- Small and lightweight equipment means we can transport it easily to wherever it is needed. Lesser logistical constraints or exorbitant shipping costs mean lower project costs and shorter survey times.
- An easy and straight-forward acquisition system means we can achieve higher production rates and further reduce your survey costs.



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INTEGRATED SOLUTIONS

We offer integrated solutions for engineering and environmental applications using geophysical and geotechnical methods in combination. Taking this approach we achieve large ground coverage with ground-truth calibration.

TAILORED CONSULTING

As every project has individual needs, we offer full consulting services from project start to end in order to find the best solution for you.

TECHNICAL SUPPORT

We are here for you. Even after a project has come to an end we will assist you with technical support for follow up investigations.

Applications and Benefits

With our brand new Summit X One seismic system we can now offer state-of-the-art reflection, refraction and MASW seismic investigations. For you as our customer this means that we can provide you, for example, with:

- Subsurface velocity profiles at your site to use in your seismic soil classification assessment for critical structures or rippability determination.
- Maps of depth to bedrock and providing elastic property estimates for your engineering designs.
- Geologic structure and lithology mapping for resource estimation and identification of potential subsurface targets.
- The location of larger underground voids for improved foundation design or to mitigate risks to mining operations.
- Groundwater table maps in sediments across a site for reliable engineering designs.
- Determination of soft soils and slide planes of active landslides for design and hazard identification purposes.

The applications are numerous and with depths up to 40 m we have a tool to assist you with a variety of questions. It all starts with an email or call – don't hesitate to get in touch for an obligation free consultation.

Why assume or extrapolate ground conditions and parameters, if we can offer you in-depth knowledge of your site from the start of a project? This can save valuable time and resources and minimises risks of overly conservative or potentially unsafe designs.

We house an experienced team of geo-professionals, structural and civil engineers. This means we can also offer an integrated one-stop-shop solution if needed.

Get in touch for more information about how we can make a positive difference to your project.



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