

ENVIRONMENTAL DRILLING

FEEL THE SONIC VIBES !
Make your difficult works successful



Main applications :

Sampling mixes layers

Do you need to take samples in alluvial grounds or in a profil with mixed layers ? Aqualock is THE solution. It is the fastest and most reliable sampling tools for this type of formations, either for continuous sampling or discreet sampling

Drillers reach optimum drilling speeds by matching the frequency of vibration to the natural frequency of the ground. Efficiently penetrating the formation, sonic drills can consistently obtain close to 100% sample recovery.



Sampling hard formations and rocks

With other soft formations such as sand, loam, peat, clay, etc..., Core Barrel is the right choice. Combining vibration with rotation, the Tungsten carbide buttoned bits cut through the harder formations. Always the same goal : to obtain 100% recovery rate, with a higher lifespan for the equipments. For large diameters samplings, several core barrels are available as well as casing systems (for telescopic purposes) until 7" (178mm). .

Volatile Organic Compounds (VOC's)

Our sonic drills are frequently used for environmental or geo-environmental investigations of highly polluted sites. These projects include nuclear licensed sites, petro-chemical works and petrol stations. The sonic drilling method can easily be adapted to change drilling procedures or methodology. And very important: with sonic drilling you can achieve up to 70% less waste on site!



"SmartWell" systems

The assemblation of filter parts and filter sand in a traditional monitoring well system is time spending. With Sonic Drilling, you can install the SmartWell through the inside of the drill casing because of use of lost cone. SmartWells will bring more efficiency in the installation process, bentonite and filtersand are prepacked around the monitoring well. This prevents them from getting stuck inside the casing

Main benefits of Sonic method :

- High quality and undisturbed samples in all type of geology
- Clean method of drilling
- Constant recovery rate up to 100%
- Unrivalled sampling rate per day
- Multi usable: for sampling, installation of piezometers, remedial in-situ injection, etc...
- Usable in combination with conventional techniques



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Our equipments



- Sonic rigs with optimal configurations for environmental drilling and sounding
- AquaLock core samplers that can rapidly produce perfect samples of wet sands, clay, peat, etc...
- Single or double core barrels suitable for any geology, including gravels, boulders, rocks, etc...
- Casing systems for telescopic purposes.
- Toolings for destructive drilling
- Highly skilled staff to train your people to work with this equipment at your jobsite
- Pre-packed monitoring wells

Your challenge

Getting high quality samples without cross contamination isn't easy. Contamination often spreads to other layers or to the surface. This brings health risks and high costs to solve this problem. Accurate samples from desired depth are often hard to obtain. Slow advancement of the drill results in your field specialists wasting their time. Because of poor engineering data due to bad sample quality, health and safety risks may well stay unrecognised.

Our answer

Sonic drill rigs with special soil samplers and rock coring tools which have proven to produce the correct data in short time. Samples are complete, show accurate depth information and are highly undisturbed.

Taking water samples using waterwell systems is easy with sonic lost cone technique. The Sonic drill rigs produce clean boreholes and keep your jobsite clean.

The stunning drilling speed, low sound level and ergonomically balanced operation make that people like working with our Sonic rigs and smart sampling tools. All the equipments respect the current standards.



REFERENCE PROJECT

Maarten Gerritsen, VCM I Drachten, Pays-Bas

« SonicSampDrill has exactly the right knowledge. They are always willing to think and help us and our clients out when we have to drill in difficult circumstances. Their drilling technique is up to four times faster than any other technique. It makes it easier and faster to drill through complicated soil layers. »

PILOT PROJECT

In order to prove the efficiency of this method, a team can come on site to carry out a difficult and/or target work. For more information or personal advice, please contact us.