# Soil Gas Sampling Probe Implants.

**“ Soil Gas Sampling Simplified ”**

**Leeder Consulting** specialise in non-routine laboratory analysis. Independence and commitment to your project’s **“data quality objectives”** enables us to suggest innovative and cost effective solutions. If it is high-tech, challenging, difficult or out of the ordinary - call us now.

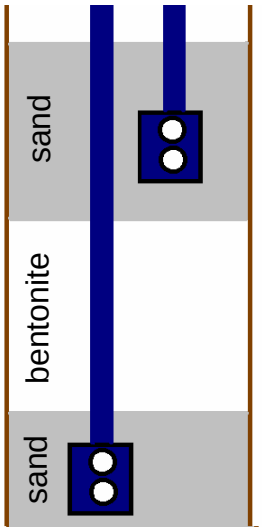
Soil Gas Sampling and Analysis can be a very effective way of detecting volatile contaminants in soil and groundwater. It is an ideal screening technique which is now made even simpler, more reliable, and more cost effective with the use of Soil Gas Sampling Probe Implants.

< Perforated Probe Tips as pictured on the left are driven into the ground using rods from a conventional soil gas probe system with a slide hammer or hammer drill. The probe drive extension poles are removed leaving the perforated probe tip at the desired depth.

The tip is then buried with about 20 cm of sand, and sealed to the surface with bentonite.

Vapour Sampling Probe Implants > as pictured right, can be placed in narrow boreholes using a hand auger or drill rig.

Once the target depth is reached, the implant is lowered into place and buried in about 30 cm of clean dry sand. It is then sealed with bentonite up to the next sampling depth where another probe can be set in place with sand and sealed with bentonite, as pictured on the right. >




The small tubing and implants allows the sampling of multiple levels from the same borehole ( “nested vapor wells” ).

The implants are left in place and sampling can be repeated as part of an ongoing sampling program.

For deep installations, 1/8 inch tubing can be used instead of 1/4 inch tubing to reduce “internal dead volumes” and reduce the problems associated with purging large sample volumes. For low level VOC sampling, Teflon tubing should be used to reduce the risk of contamination from the sample tubing. The ends of the vapor sampling tubing can be sealed off at the surface with gas tight fittings suitable for connection to sampling equipment such as sorbent tubes and tedlar bags. If required, the borehole can be terminated at the surface with a variety of completions, such as locking well covers.

**Sampling Procedures & Media** form an integral part of obtaining reliable results. We work with our clients to ensure the sampling & analytical techniques satisfy the “data quality objectives”. In addition, we are able to prepare and supply the right, solid sorbent tubes, gas bags and canisters for sampling.

Leeder Consulting offer a range of specialised high-tech, non-routine and on-site services. Access to leading edge technology and expertise in Australia and overseas guarantees results when and where you require. To discuss your requirements or for more information call us now.

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