Soil Gas Sampling Application:

The soil gas sampler is small-diameter tooling consisting of direct push extensions with expendable, retractable, or dedicated drive tips. The tooling is driven into the subsurface through the direct push of the PowerProbe™. When they are at the desired depth, the drive point is retracted or detached by pulling back on the tooling, exposing an inlet section with holes or a screen. The purging and sampling may begin using an AMS vacuum pump, vacuum station, or other sampling instrument.

Dedicated Tip

Designed to be pushed single tube without pre-boring and collect a point source soil gas sample. The tubing and tip can be left in place for future assessment of the job site using the same sampling point.

Horizontal Soil Gas Sampler

To ensure an accurate sample from a very precise target sampling point, the horizontal soil gas sampler is your tool.

Expendable Tip

Designed to be pushed single tube without pre-boring and collect a point source soil gas sample.

Recommendation

Use the 1 5/8" expendable tip for a dual tube install.
- Drive down with dual tube system
- Pull out internal dual tube components
- Drop Bentonite
- Hydrate with water
- Drop the single tube down
- Push through Bentonite, generating a seal
- Purge the ambient air at a low flow
- Finish by extracting using a vacuum

Recommendation

Use the 1 1/4" expendable tip for a dual tube install.
- Drive down with dual tube system
- Pull out internal dual tube components
- Drop Bentonite
- Hydrate with water
- Drop the single tube down
- Push through Bentonite, generating a seal
- Purge the ambient air at a low flow
- Finish by extracting using a vacuum

Soil Gas Sampling with Direct Push

Soil gas sampling with direct push methods are commonly used with soil gas surveys for the investigation of volatile organic compounds. AMS offers a soil gas sampling system with a number of options to allow sampling for a wide variety of regulatory and standard procedures.

Soil Gas Sampling

1. Dedicated Tip Soil Gas Sampler
2. Horizontal Soil Gas Sampler
3. Expendable Tip Soil Gas Sampler
Soil Gas Samplers

Soil gas samplers are used to take samples of soil gas from the vadose zone. They sample primarily volatile organic contaminants and are used during a soil gas survey and/or a soil gas investigation.

Features
- Rapidly collect the sample at specific depths.
- Penetrate to sampling point quickly.
- Easy to use and easily adapts to existing tooling.
- Inexpensive survey tool.
- Use in a wide variety of methods.

1 5/8" Tooling
- 52263 1 5/8" w/ 1 1/4" Thread - Fishing Tool
- 5008.27 1 5/8" w/ 1 5/8" Thread - Fishing Tool
- 5006.99 O-Ring Kit for 1 5/8" DP Extensions (25)
- 52644 1 5/8" Makro Tip
- 52744 1 5/8" Dedicated Monitoring Tip Set with Dedicated Monitoring Tip Holder
- 52745 1 5/8" Dedicated Monitoring Tip Holder
- 52746 Replaceable Screen for Dedicated Monitoring Tip
- 52747 Dedicated Tip Set including Barbed Insert Connector, Screen, and O-Ring Replacement O-Ring Kit (25) for 52747
- 210.05 3/16" Barbed Insert Connector
- 5008.28 1 5/8" Thread Chaser
- 5008.29 1 5/8" Thread Protector Cap
- 5006.96 1 5/8" Injection Coupler
- 52642 2 1/4" Drive Cap w/2" Hex for 1 5/8" Internal Tooling
- 52643 2 1/4" Internal Drive Point Hex Holder w/Bit for 1 5/8" Internal Tooling
- 5006.94 1 5/8" x 4' DP Extension

1 1/4" Expansible Tip Soil Gas Sampler
- 5005.86 1 1/4" Drive Head Adapter
- 5005.74 1 1/4" x 4' DP Extension
- 5004.58 50 Mesh Stainless Screen for Tip Holder
- 5004.55 1 1/4" Expansible Tip Holder, Threaded
- 5005.80 1 1/4" Pull Cap
- 5004.56 1 1/4" Expansible Tip
- 5004.45 Twist-to-lock Connector, 3/16" ID
- 5004.43 Twist-to-lock Connector, 1/4" ID

1 1/4" Dedicated Tip Soil Gas Sampler
- 5005.86 1 1/4" Drive Head Adapter
- 5005.74 1 1/4" x 4' DP Extension
- 5004.57 1 1/4" Dedicated Tip Holder, No Thread
- 5004.52 1 1/4" or 1 1/8" Dedicated Tip, Threaded
- 210.05 3/16" Barbed Insert

Tubing and Expendables
- 5004.47 48 Silicone Tube #15 x 50'
- 5008.07 O-Ring Kit for 1 3/4" DP Extension
- 5004.66 Stainless Steel #120 Mesh Screen for Expendable Drive Tip Holders
- 5004.59 Stainless Steel #100 Mesh Screen for Expendable Drive Tip Holders
- 5004.48 48 Silicone Tube #15 x 500'
- 5004.41 Poly Tube 3/16" ID x 1/4" OD x 500'
- 5004.42 Poly Tube 3/16" ID x 1/4" OD x 250'
- 214.98 3/16" ID x 1/4" OD Fluoropolymer Tubing (50')
- 214.99 3/16" ID x 1/4" OD Fluoropolymer Tubing (100')
- 215.00 3/16" ID x 1/4" OD Fluoropolymer Tubing (250')
- 215.03 1/4" ID x 3/8" OD Fluoropolymer Tubing (50')
- 5004.58 50 Mesh Stainless Screen for Tip Holder
- 5004.83 O-Ring for Expandable or Dedicated Tip
- 5008.02 O-Ring Kit for 1 1/4" DP Extensions (25)
- 5006.99 O-Ring Kit for 1 5/8" DP Extensions (25)
- 5004.46 Twist-to-lock O-Ring (each)