

Retractable Soil Vapour Bore

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Description

The retractable SVB, developed by CRC CARE, is demonstrated in Figure 1. The SVB is a proliferous and meshed stainless steel cylinder, with 10 cm length and 8 cm diameter. A 3mm internal diameter Teflon tubing, used in connection with the SVB to Tedlar bags or canisters on the surface. The tubing is covered and protected using 20mm diameter galvanised pipe from SVB to the surface, filled/sealed with fine clay powder, i.e. bentonite. An 80mm diameter stainless steel plated washer is attached, act as an umbrella to protect the SVB from topsoils cross-contamination. On the soil surface, a 'meter cover' will be installed on the surface to cover the sampling tubing outlet. Brass fittings are applied to the SVB system.

Functionality

The SVB can be used for sampling volatile organic compounds in soil vapour from sub-surface soils for vapour intrusion assessments.

Installation

SVB can be installed using hand/ mechanic auger equipment. Special drilling services might be required for high clayey or compacted soils.

Decommission

The SVB is retractable, and can be lifted up from soil using a jack lifter. Special drilling services might be required for high clayey or compacted soils.

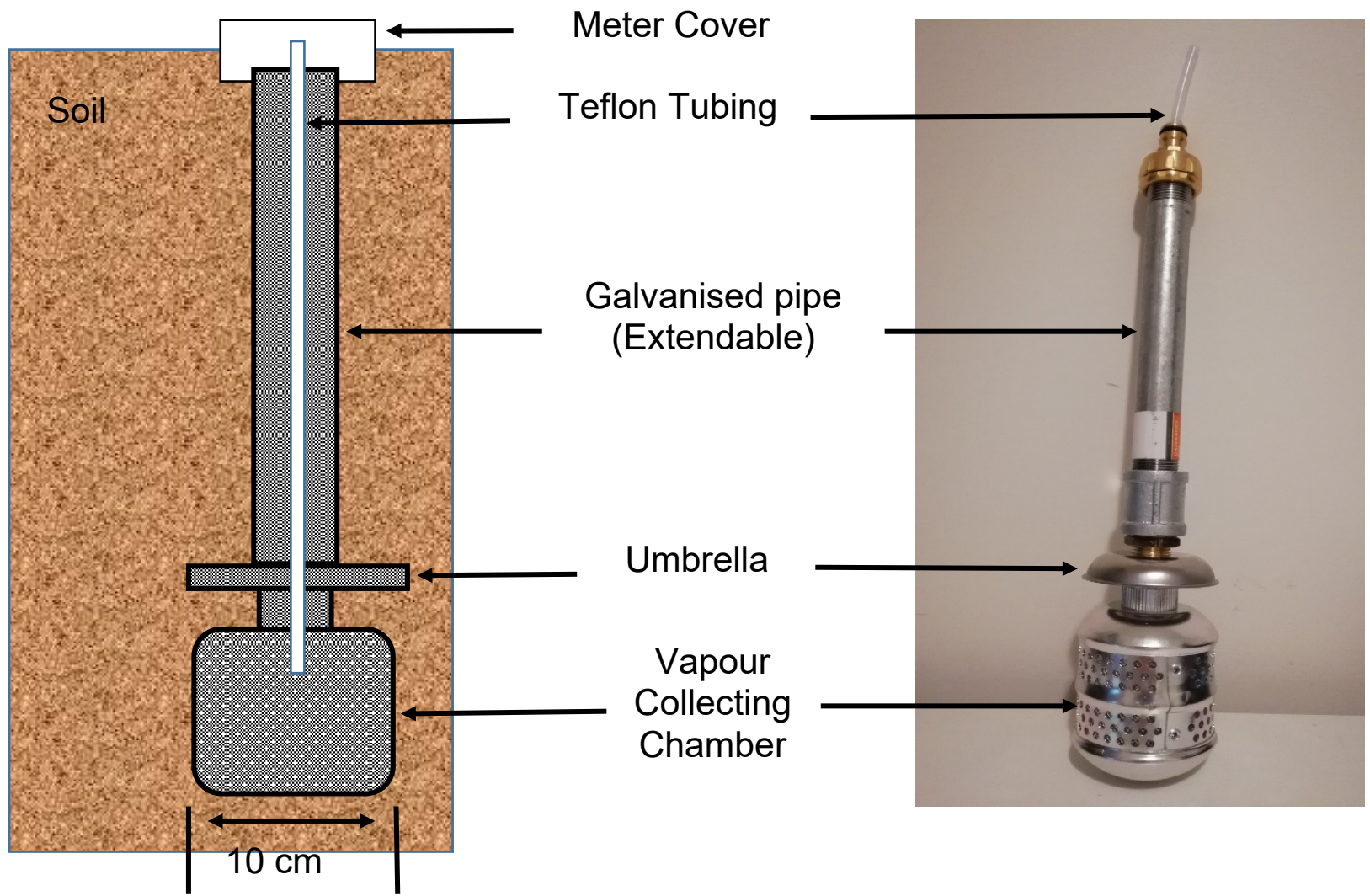


Figure. Retractable soil vapour bore