MULTISAMPLER

P6.02
Parts List
Pg 421

The sampling of residual substances and chemicals requires special characteristics regarding shape and design of the sampler as well as regarding the quality of the material that is used to construct the sampler. The multisampler has been developed for sampling of wet, solid as well as fluid material.
The apparatus is part of a complete set of sampling equipment.

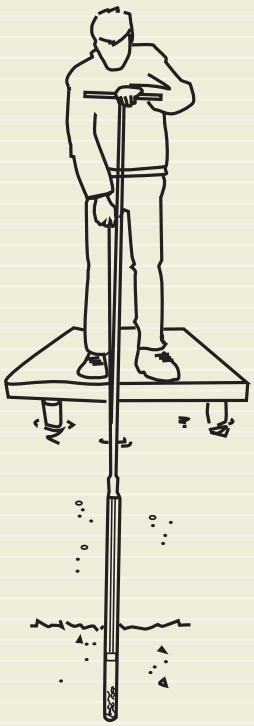
12.42 Multisampler, rod operated, set for sampling to a depth of 5 m

The standard set is suitable for sampling up to a depth of 5 meter. The materials used for the multi-sampler are stainless steel, NBR-rubber (the piston) and transparent acrylic plastic (sampling tube).
The standard set (with bayonet connection), among other items, contains: a multisampler, inclusive of two cutting heads (one for fluid- and one for solid material), sampling tubes, pistons, extension rods, a top-piece and various accessories.
The complete set can be transported in a carrying bag with shoulder strap.

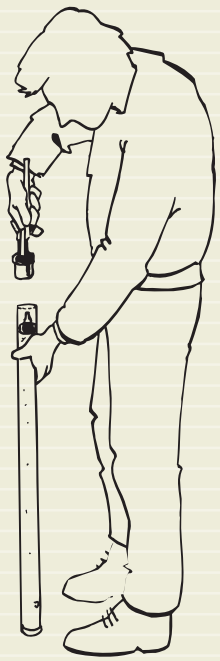
Using the multisampler it is possible to take anaerobe samples in a wide variety of wet materials, solid as well as fluid.
Using the piston rod (usually extended by means of a wire-line) it is possible to move the piston in the sampling tube while this tube is held stationary. In this way the original stratification of the sampled material is maintained.
After the cutting head with ball valve has been fitted, this quality is maintained to a certain degree. However, in very heterogeneous substances separation will occur in addition to disturbance.
Because of the correcting effect of the piston the irritating phenomenon of compaction of the sample is prevented.
The multisampler can be emptied by pressing the sample from the tube into a sample flask or in a gutter with the piston. Another possibility of sample retrieval is by unscrewing the piston rod from the piston. The top-piece can be removed together with the piston-rod and after removing

Multisampler, rod operated

The multisampler is used to take sediment samples.



After demounting and fitting of a cap the sampling tube can be transported to the laboratory.



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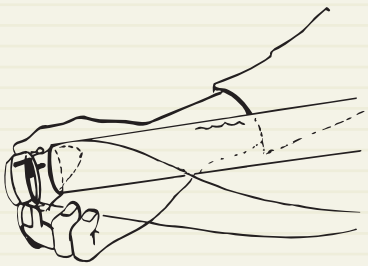
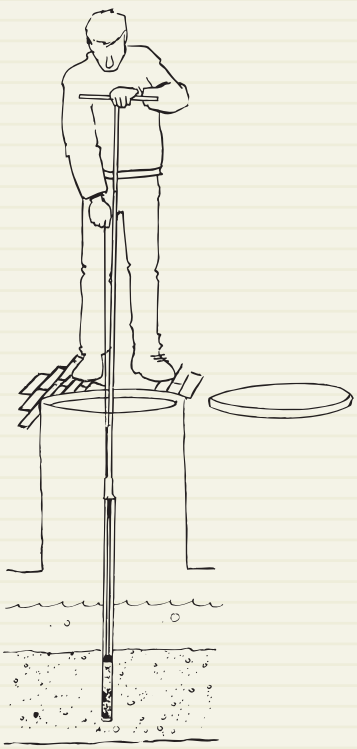
P6.02
Parts List
Pg 421

Depending on the type of sampling the sharp cutting head or the cutting head with ball-valve is fitted.



The multisampler is used to take a sample from the material from a gully hole.



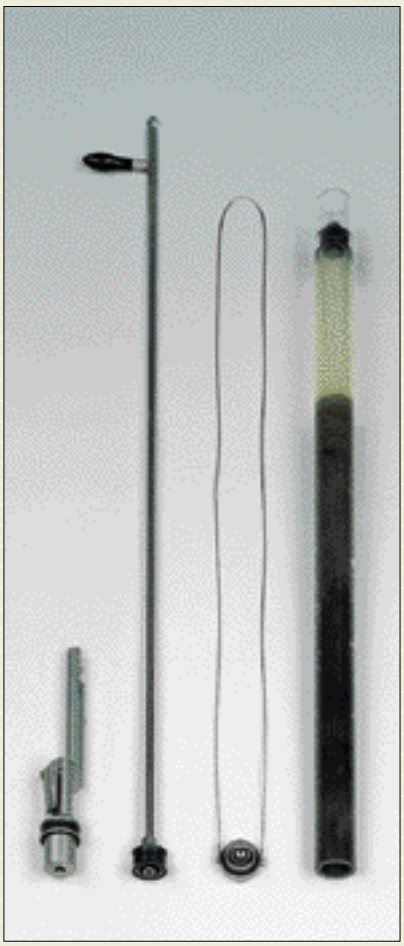
ball-valve and cutting head from the other end of the sampling tube and closing the tube with a stopper, the whole sampling tube can be taken to the laboratory (without risking aeration).
Emptying the sampler when it is fitted with cutting head and ball valve, is possible by slanting the sampler slightly and pulling the piston-rod a little allowing the ball valve to open. The contents will then empty into a flask or gutter.

Advantages

- Quick and simple sampling.
- Minimal compaction which makes it possible to maintain the original thickness- and stratification of the layers.
- The transparent sampling tube allows for immediate visual checking of the sample.
- The option of sampling at accurate depth (without mixing with higher situated strata).
- Accurate mix-sampling during one procedure.
- The sampling tube can be changed and/or decontaminated quickly.
- Sampling with a minimum of disturbance (with cutting ring) or with little agitation (using a ball valve).

Applications

The multisampler has been developed to sample open water, water purification basins, settling tanks, crystallization basins, sewage systems and waterbottoms, for biological, physical and chemical research.
If the sampling tube is fitted with a sharp cutting head, then it is possible to sample more resilient material such as wet sand, manure, thick sludge and gels.
Applying the cutting head in combination with a ball valve allows for sampling of (viscous) fluid material such as water, sewage sludge, sludge or slurry.



Multisampler, demounted

Multisampler, top piece

Cutting-heads