

CABLE OPERATED SEDIMENT SAMPLERS

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04.30 Van Veen grabs

The stainless steel Van Veen grabs are used for taking disturbed samples from the bottom of lakes, rivers, etc. Various designs can be supplied. The smaller designs are manually controlled.

The mode of operation of all Van Veen grabs is the same. At the surface the jaws are pushed open and kept in that position by a hook. To keep the hook in the right position the Van Veen grab should be sunk at a steady, not too high, pace.

Both jaws are fitted with holes to allow air to escape during the sinking. If these holes were not there, the air would escape when taking the sample, which would result in interference with the sample.

As soon as the jaws touch the bottom, the hook loosens its grip, so that, when hoisting the rope again the jaws will shut tight because of the leverage by the rods.

The amount of drawn sample mainly depends on the compactness of the bottom. A heavier grab catches more than a lighter one. Therefore all models have been fitted with weighting blocks. Moreover, when a strong current prevails, the cable of the heavier grab deviates less from the vertical than the lighter one.

It is recommended to take at least 6 samples from every location and to base your conclusion on the total of the samples.

This is especially important when the bottom is less regularly shaped and the bottom material consists of a mixture of materials.

In spite of the heavy closing force, it can happen that a pebble sticks between the buckets. In such case the sample is not representative; the smaller parts may have escaped during hoisting.

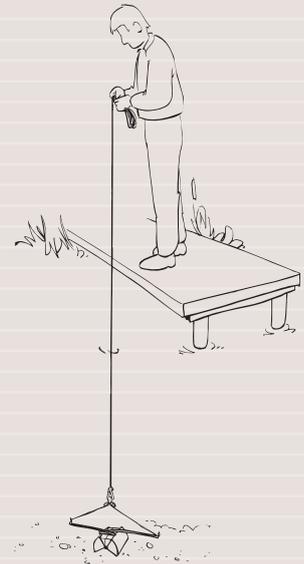
Once surfaced, the grab is emptied and cleaned.



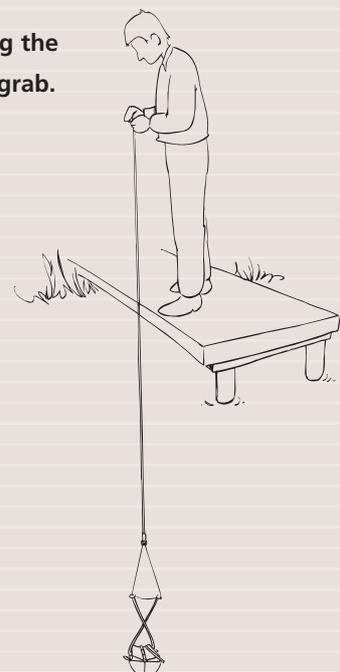
Van Veen grabs

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The Van Veen grab is sunk on a rope with its jaws open.



Hoisting the closed grab.



BENEFITS

04.30 Van Veen grabs

- Fastest indication of sediment type
- Four sizes to suit any need
- Inert stainless steel construction
- Anyone can do the job



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