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The world's finest
sampling equipment.

Soggy Bottom Sampling System

Application:

Use this manually-driven sampler for discrete interval sediment sampling below water and below the surface of the sediment in rivers, lakes, wetlands, and estuaries. To obtain a sample, the sampler is lowered to the surface or driven down to the desired depth where sampling is to begin below the surface. Upon reaching the desired sampling depth, the inner rods attached to the internal drive tip are retracted. When removing the internal rods, the internal drive tip is released and retained in a chamber at the top of the sampler. Next, the slide hammer with the 1 1/8" vented hammer adapter is attached, and the sampler is driven down to collect the sample. Once the sample has been collected, the rods and sampler are back-hammered out of the borehole. If sampling in hard or tight sediments, the rods and sampler can be pulled out of the sample boring using the optional removal jack and chain pull cap. After removal, the sampler disassembles easily to allow access to the sample liners which can then be capped off for transport to the lab.

Description:

(Note: Descriptions apply to the photographs on the next page) Interval specific sampling is made possible by the use of an internal piston that is removed once the SBS sampler has been driven to the depth where sampling is to be conducted. SBS Assembly Instructions. Before attempting assembly, please insure all parts are clean and properly decontaminated.

1. Insert the lower half of the lead internal rod, with 3/8" coupler (1st stage) into the internal drive tip. Pull down on the brass ring, push the grooved end of the lead internal rod into the recess, and gently release the brass ring.
2. Insert the internal drive tip and lead internal rod assembly into the external drive tip.
3. Connect the upper lead internal rod, with 3/8" coupler (2nd stage) to the lower lead internal rod (1st stage).
4. Insert a 4 foot liner, with the hole in the liner oriented to the top, into the sample tube (the sample tube has a 2" outside diameter and consists of two parts, a double female lead section and a male x female upper extension). If an operator chooses to use a 2 foot liner instead of a 4 foot liner, the process is the same; only the male x female upper extension is not used.
5. Insert a plastic core catcher (white), in the bottom of the sample tube, with the dome pointing towards the top.
6. Insert the internal drive tip/external drive tip assembly into the sampler tube.
7. Insert the metal core catcher into the top of the main sampler tube, with the dome pointing upwards.
8. Install the internal tip chamber to the top of the main sampler tube.
9. Install the top drive head adapter to the top of the internal tip chamber.
- 10a. Install the thread protector cap, or
- 10b. Internal rod with external drive extensions (if using 1 1/8" x 3' external extensions with 3/8" internal rods, place a 3/8" coupler on the top of the internal rods, prior to installing the top drive head adapter). Install the thread protector cap at the top of the internal rod prior to connecting the vented drive head (Install the correct amount of internal/external extensions necessary to lower the sampler to the surface and get to the desired sampling point).
11. Install the vented hammer adapter, already attached to slide hammer.

Technical Data Sheet • page 1 of 2



AMS Soggy Bottom Sampling (SBS) System

part #	item description	weight	price
5618.00	2" OD Soggy Bottom Sampling Kit	100.0 lb.	\$ 1,522.20

AMS SBS Kit Replacement Parts and Accessories

part #	item description	qty	weight	price
5618.105	SBS External Drive Tip	1	3.0 lb.	\$ 119.10
5618.106	SBS Internal Drive Tip	1	2.5 lb.	\$ 90.00
5618.168	SBS Lead Internal Rod for 2'	1	0.1 lb.	\$ 73.30
5618.169	SBS Upper Lead Internal Rod	1	0.1 lb.	\$ 43.30
5618.166	SBS Sampler Tube for 2' Liner	1	5.0 lb.	\$ 107.70
5618.167	SBS Sampler Tube Upper Extension	1	5.0 lb.	\$ 101.20
5618.109	SBS Top Metal Core Catcher	1	0.1 lb.	\$ 55.90
18013	1 1/2" Basket Retainer - White	1	0.1 lb.	\$ 1.60
5006.425	1 1/2" x 4' PVC Liner	1	0.7 lb.	\$ 2.91
5006.423	1 1/2" x 2' PVC Liner	2	0.4 lb.	\$ 2.10
418.08	1 1/2" Plastic End Cap	2	0.1 lb.	\$ 0.20
5618.113	Internal Tip Chamber	1	2.3 lb.	\$ 101.20
5618.114	1 1/8" x 2" SBS Top Cap	1	1.7 lb.	\$ 125.70
5618.116	1 1/8" Vented Hammer Adapter	1	0.4 lb.	\$ 44.50
5618.118	3/8" x 3' Internal Rod w/ Coupler	3	7.1 lb.	\$ 20.80
5004.06	1 1/8" x 3' Direct Push Extension	3	20.0 lb.	\$ 102.50
400.93	3/4" Heavy Duty Slide Hammer	1	0.8 lb.	\$ 240.00
5006.84	Steel T-Handle (3/8" Threaded)	1	28.0 lb.	\$ 17.00
430.01	AMS Deluxe Carrying Case 1750	1	0.3 lb.	\$ 233.50
5009.05	Brush For 1 1/8" External Extension	1	0.3 lb.	\$ 8.00
5009.09	Brush For 2" Sample Tube	1	0.5 lb.	\$ 10.95
5618.129	SBS Liner Removal Tool Assembly	1	0.5 lb.	\$ 21.90
5618.115	SBS Thread Protector Cap	1	0.2 lb.	\$ 16.80
ACCESSORIES				
5618.121	SBS Chain Pull Cap	-	2.0 lb.	\$ 75.00
18253	SBS Big Foot Jack	-	35 lb.	\$ 225.00
10183	1 1/2" Basket Retainer - Red	-	0.1 lb.	\$ 1.60
1002.24	3/8" Couplers	-	0.1 lb.	\$ 8.75
418.16	0.003" x 4" x 100' Perforated Roll Fluoropolymer Film	-	1.3 lb.	\$ 80.60

Sampling Equipment

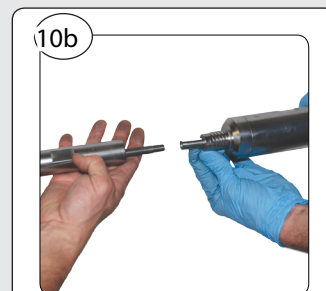
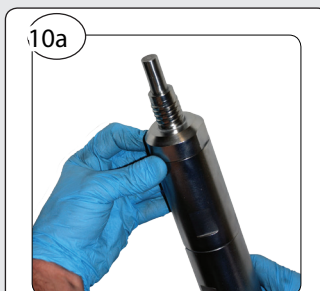
PowerProbe

Well Management

Pest Control

PowerCore

Assembling the SBS System



Use:

Assembly should always be done with clean and properly decontaminated sampler components. Take particular care to ensure that the threads are clean. Use the appropriate Personal Protective Equipment to protect the user/operator from possible site contaminants and other injuries that

may be encountered when using the sampler and collecting samples. Also, during assembly it is recommended to use a clean non-adhesive Teflon tape at each connection to help protect the threads and minimize the chance for cross-contamination.