

Appendix C

Sampling Equipment

Sediment Trap Styles



The baffle-style trap housing unit is PVC material - 42 inch in length (including reducers on both ends). Inside is a 6-inch diameter trap of stainless steel material- 24 inch long. The inlet diameter is 1-1/2 inch and outlet diameter is 3 inch; the differing inlet/outlet diameters are intended to slow water flow within the trap. The baffles within the trap are designed to help entrain solids within the trap. The baffle trap is deployed by attaching it to a set of cement blocks (approximately 8 inches in height) placed on the stream bed. When the trap is attached to the blocks, the base of the sampler inlet is approximately 11 inches above the stream bed.



Jar-style trap consist of two wide-open mouth 1000 mL Teflon® bottles with the following dimensions: 3.5 inch diameter, 7.75 inch tall (7 inches to shoulder) with an opening of 1 5/8 inch. The bottles are attached to a concrete block (6" in height). The top of the collection bottle once inserted into the concrete block will be approximately 9 inches from the bottom of the stream bed.

Baffle-Style Sediment Trap Field Photos



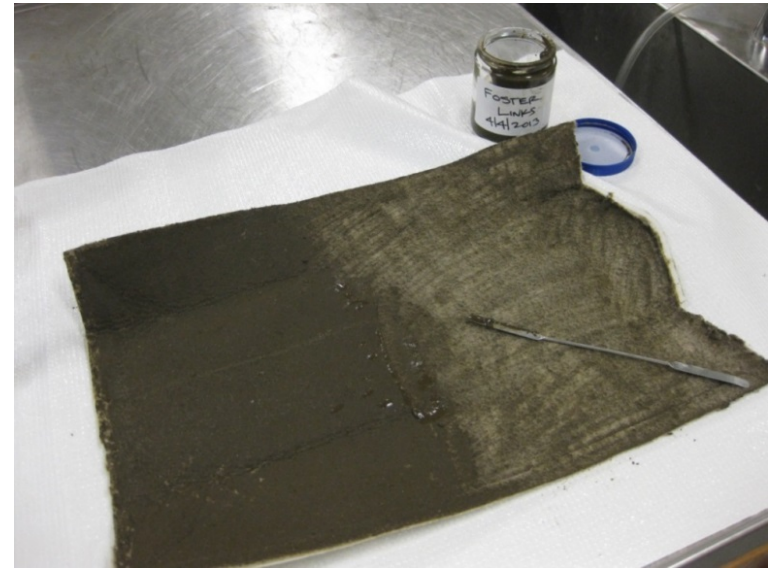
Filtered Solids Field Photos



The sampling unit consists of a DC-powered bilge pump connected to a frame which supports two parallel filtration housings and batteries. Stream water is pumped through the filtration housing units, each equipped with a 20-inch long, 4-inch diameter filter bag. All bags are made of 5 micron polypropylene felt, pressure rated to 15 psi.



Filtered Solids-Processing



Filters are cut open and solids carefully removed. Filters do not capture all suspended solids and removal of solids from filters can not collect all material on filter.