OPERATING INSTRUCTIONS

FOR

BED LOAD SAMPLER

MODEL BLS-30
AND
MODEL BLS-48

BLS30/48 100-01
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SPECIFICATIONS

BEDLOAD SAMPLERS MODELS B.L.S. 30 AND B.L.S. 48

Pressure difference cable suspended bedload samplers, for use in natural streams carrying coarse sediments.

Weight:  
Model B.L.S. 30  30 Kgs  
Model B.L.S. 48  48 Kgs

Orifice Size  
76mm x 76mm

The Columbus pattern torpedo shape used in stream gauging weights has been adopted to reduce drag.

The body is all welded stainless steel construction, with a stabilizer tail assembly.

Samples are collected in a polyester mono filament bag of 0.2mm mesh to A.S.T.M. specifications for uniformity, resistance to abrasion and wear - will not absorb water.

The sampler is attached to the winch cable Cl Connector by a sliding collar, which allows the sampler to be balanced.
ASSEMBLY

1. Remove bed load sampler from packing box. Suspend sampler in the water and adjust suspension bracket so the sampler is tail heavy at an angle of approximately 25°. To achieve this, release locking screws and move the sliding collar until this is achieved. Lock screws ensuring suspension bracket is vertical.

2. Place sample bag (BLSH-04), with seam uppermost, to rear of nozzle.

3. Place elastic band of sample bag in location groove around nozzle.

4. Secure the bag with the four (4) clamps on the top and bottom of nozzle.

5. Connect hook to eye in the rear of the sample bag.

6. Connect Cl Connector to sliding collar.

SAMPLING

1. Locate sampling points at the centroid of equal discharge panels in the stream (by current meter measurement).

2. Lower the sampler carefully to the stream bed. When the tail makes contact, slowly lower the nozzle until it is sitting on the stream bed, care should be taken not to dig in the nozzle.

3. Collect a sample over a timed period, ensuring the sample bag is not filled more than 40% record time and location.

4. Remove sample bag and wet weigh sample. Empty and wash out sample bag.

5. Continue sampling operation.

DISMANTLE

1. Remove sample bag from sampler for storage.

2. Ensure lower clamp screws and clamps are secured to prevent loss or damage in box.

3. Return sampler to box for transportation.