

SABL Sediment Trap

Application:

The Signal Activated Bottom Lander (SABL) Sediment Trap is a low-profile sediment sampler that collects sinking particles and stores material in individually sealed sample bottles.

Remotely started and terminated sample collection allows users to target specific events. Traditional time-series calendar event deployments can also be programmed.

Samples support stormwater discharge analysis, dredging events, sediment disturbance studies, and harmful algal bloom (HAB) studies.

Features:

The SABL collects up to 13 samples of 250ml each. The SABL uses a pop-up recovery buoy that can be remotely triggered or scheduled. Acoustically activated release optional.

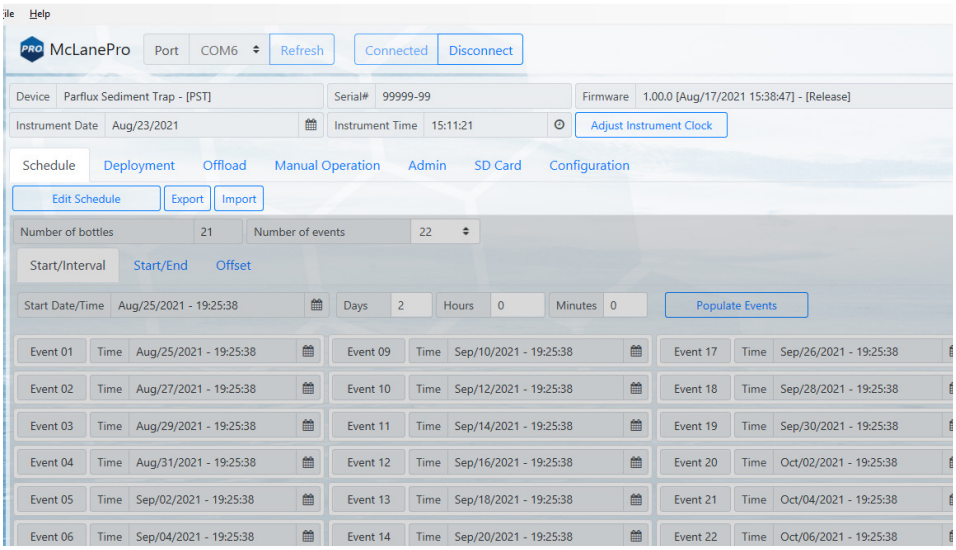
A 30.5 meter synthetic line comes standard. Other length options are available. Standard pop-up buoy release is triggered by the sediment trap electronics.

Options:

External temperature and depth sensors, external power connection.

McLanePro:

The SABL uses McLanePro, a graphical user interface built for McLane's Gen3 electronics. McLanePro eases the steps of event programming, data offload, and firmware updates.



- Number of samples: 13 with 250ml bottles.
- Power: 14 commercially available, user replaceable "C" cell alkaline batteries.
- Depth-rated to 400m (deep options available).
- Pop up buoy used for instrument recovery.
- Uses the same field-proven components as traditional McLane Sediment Traps.
- For more information about this sampler, see the Sediment Traps pages at mclanelabs.com.

SABL Sediment Trap Specifications

DIMENSIONS:	Diameter:	167 cm (66 in)
	Height:	92 cm (36 in)
WEIGHT APPROX:	In air, 250 ml bottles full:	122 kg (247 lbs)
SAMPLE COLLECTION:	Number of samples:	13
	Bottle volume:	250 ml
	Aperture area and diameter:	0.125 m^2, 40 cm
	Baffle material:	Polycarbonate, 1.0 mm wall thickness
	Cone material:	Natural polyethylene internal coating
	Baffle cells:	2.5 cm diameter
	Aspect ratio of cell (h/d):	2:5
	Included cone angle:	41°
ROTARY ASSEMBLY:	Drive motor type:	Electronic stepper motor
	Drive train:	Direct gear train
CONTROLLER:	Pressure housing:	Acetal copolymer, titanium fasteners
	Power supply:	14 “C” size alkaline cells
	Communications:	USB, RS-232, RS-485
OPERATIONS:	Maximum depth:	400 m (deep options available)
	Maximum deployment time:	24 months
	Operating temperature:	-4°C to 35°C (in water-nonfreezing)
	Storage temperature:	-20° to 45°C (in air, batteries removed)
FRAME:	Material:	Powder-coated aluminum tripod with titanium lifting handle
	Bridle:	Single titanium lifting handle 1” diameter hole. Recommended 5/8” shackle
	Fasteners:	316 SS isolated
POP-UP BUOY:	Materials:	PVC, 316 SS, DeepTec® solid syntactic foam
	Line Length:	30.5 meters synthetic line standard (other lengths available upon request)
	Release:	Trap activated EdgeTech PORT (standard). Acoustic activated release available