



- ▼ 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](https://www.mclanelabs.com/SedimentTraps) pages at [mclanelabs.com](https://www.mclanelabs.com).

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.

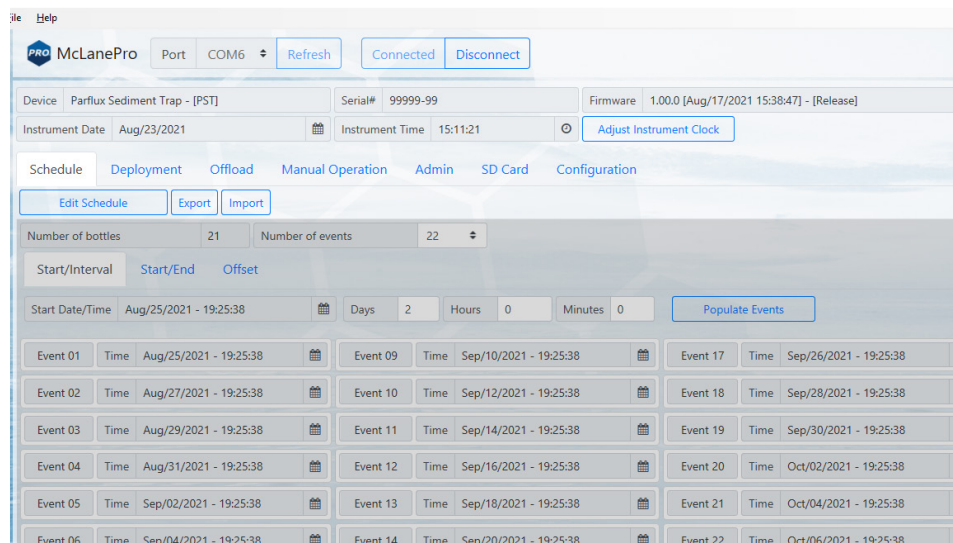
A 30.5 meter synthetic line comes standard. Other length options are available. Standard pop-up buoy release is triggered by the sediment trap electronics.

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.



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 m², 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)

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