



Logger post to >900mm or >450mm + add 2 bags of concrete

# FPH metering installation procedure without walkway

Initial installation is boat/barge assisted – either manned or remote control  
 Installation location is determined by sonar or plans – must be nearly flat and >5m away from inflow-outflow works and bank toe.



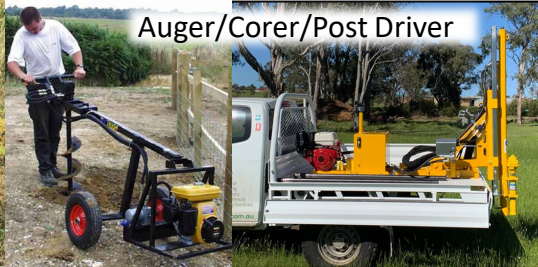
Laser Level



Boat & Sonar or plan & floats



Trencher (hand held or stand behind)



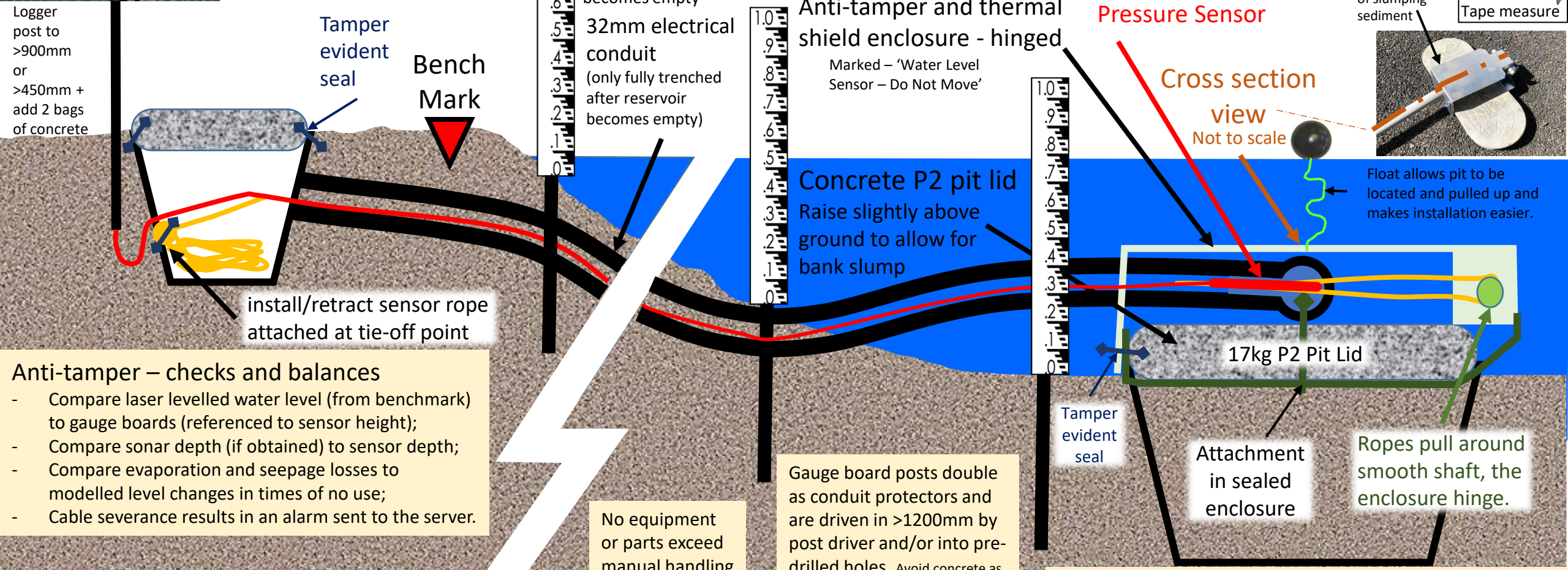
Auger/Corer/Post Driver

## Items Needed for Installation

Open cell foam in enclosure slows ingress of slumping sediment



Tape measure



**Gauge Boards**  
 Lower boards Installed only after the reservoir becomes empty  
 32mm electrical conduit (only fully trenched after reservoir becomes empty)

**Anti-tamper and thermal shield enclosure - hinged**  
 Marked – 'Water Level Sensor – Do Not Move'

**Concrete P2 pit lid**  
 Raise slightly above ground to allow for bank slump

**FPH Approved Pressure Sensor**

**Cross section view Not to scale**

Float allows pit to be located and pulled up and makes installation easier.

17kg P2 Pit Lid

Tamper evident seal

Attachment in sealed enclosure

Ropes pull around smooth shaft, the enclosure hinge.

Gauge board posts double as conduit protectors and are driven in >1200mm by post driver and/or into pre-drilled holes. Avoid concrete as it subsides and is heavy for manual handling on steep earth banks.

No equipment or parts exceed manual handling recommended weights

**Optional Earth filled pit (install only when empty)**  
 Subsidence neutral due to equal density with surrounding earth

**Anti-tamper – checks and balances**

- Compare laser levelled water level (from benchmark) to gauge boards (referenced to sensor height);
- Compare sonar depth (if obtained) to sensor depth;
- Compare evaporation and seepage losses to modelled level changes in times of no use;
- Cable severance results in an alarm sent to the server.