

# Measuring the Supply and Delivery Heads

## Using Surveying Equipment

There are many digital laser measures and modern theodolites which make measuring height and distance easy, but these are very expensive and need expert handling. However, there are cheap and simple methods you can use to get a reasonably good estimate of your supply or delivery height. The most popular methods are shown below...

## Using the Hose Pipe Method

Take a hose pipe and stretch to the point where you can get your maximum Supply Head. Fill the hose with water. At the bottom of the incline, the point at which water starts to come



out of the hose is the height you should measure to give you the Supply Head height.

This method is particularly useful if there are a lot of trees, undergrowth or other obstacles along the route.

## Using the Plank, Level and Measure Method

Use a plank, a measuring stick and spirit level to measure steps down the incline. Repeat until you reach the bottom and then add up the measurements to give your Supply Head.

e.g.  $a+b+c = \text{Supply Head}$ .



## Measuring larger Delivery Heights

The Papa Pump can deliver water over large distances and to high elevations so the methods above may not always be practical. You can consult your local ordinance survey map or look up on 'Google Earth' but be careful as the accuracy of the readings can vary.