

## Pump Selection - A worksheet for selecting the right pump.

### 1. What is the pump to supply water for?

(Tick boxes as appropriate)

- Household water supply
- Garden irrigation
- Stock watering
- Tank filling
- Other (specify) \_\_\_\_\_

### 2. What flow rate of water do you need?

\_\_\_\_\_ l/min  
(see information on providing adequate capacity)\*

### 3. What/where is the source of your water supply?

- River, creek or well
- Dam
- Above ground rainwater tank
- Below ground tank
- Borehole

### 4. If its a borehole we need to know...

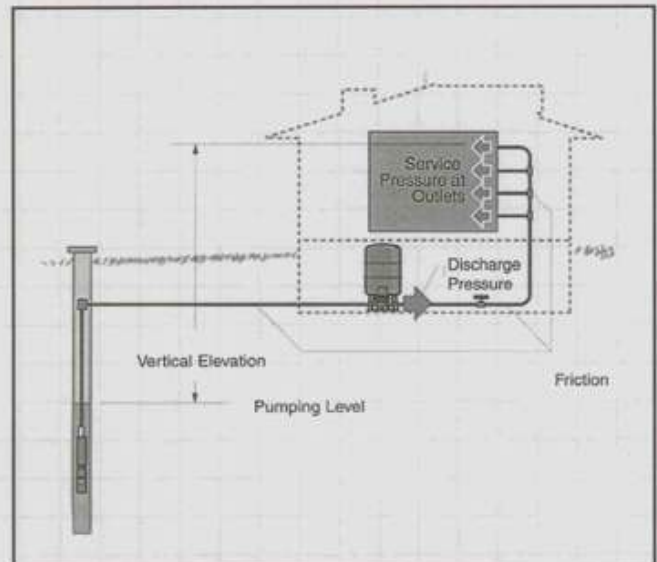
- The bore casing inside diameter \_\_\_\_\_ mm
- The bore depth \_\_\_\_\_ metres
- How much water can your bore supply \_\_\_\_\_ l/min
- What is the pumping level \_\_\_\_\_ m  
(see diagram above)

### 5. If you are not using a borehole we need to know...

- The height your water supply is above or below the pump (below is negative i.e. - 2 metres) \_\_\_\_\_ m.
- The type of pipe on the suction side of the pump (i.e. Polyethylene; PVC) \_\_\_\_\_
- Length of suction pipe \_\_\_\_\_ m; diameter \_\_\_\_\_ mm

### 6. For all pumps we need to know...

- Type of pipe on the discharge side of the pump (i.e. Polyethylene; PVC) \_\_\_\_\_
- Longest length of discharge pipe \_\_\_\_\_ m.
- Diameter of discharge pipe \_\_\_\_\_ mm.
- The vertical height from the pump (or top of bore) to the highest outlet \_\_\_\_\_ m.
- What type of outlet on the discharge side needs the highest pressure? \_\_\_\_\_
- And what is the pressure it needs? \_\_\_\_\_ kPa
- Is your power supply (Tick one) \_\_\_\_\_
- Single phase
- Three phase



### Providing Adequate Capacity

To make sure your system will provide adequate capacity, you can use either or both of these formulas:

#### 1. Fixture Method

4 l/min for every fixture in the home.



#### 2. Peak Demand Method

Maximum number of fixtures normally in use at the same time during Peak Demand Periods x 12 l/min.



Remember, no two families are the same. No two families will have the same water usage needs. So you may have to adjust.

### Capacity Needed

#### Number of Household Fixtures (litres per minute)

Bathtub/Shower	_____
Toilet	_____
Kitchen Sink	_____
Dishwasher	_____
Washing Machine	_____
Total Outlets	_____
x 4 l/min	_____

#### Peak Demand (litres per minute)

No. of outlets being used at same time \_\_\_\_\_  
x 12 l/min = Peak Demand \_\_\_\_\_

#### Garden Taps (litres per minute)

½"	_____	12-15
¾"	_____	40

#### Stock Use (litres per head per day)

Horse	_____	50-60
Cattle	_____	30-35
Sheep	_____	5-10
Chickens (100)	_____	25