

The Living Waters Ministry is building a school for 2000 children on 280 hectares of land in Borneo.

They need a lot of water!

So they installed a Papa Pump to lift water from one of their streams up to their water tower.

And without using any electricity or fuel!

The Living Waters Project was founded in a very remote part of Borneo with the aim of caring for, educating and teaching local children, including disadvantaged children and orphans. The schools, amenity buildings and a hospital will all need water and being in a remote off-grid location meant that they had to use what was available locally. They were attracted to the Papa Pump because it works without fuel or electricity and is modularly expandable so if they needed more water it would be easy to add more pumps to the water system.

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They assumed that they would need to use the large river as a supply source, however, after consulting with Water Powered Technologies, they realised it would be better to use one of the many streams running through the property and were delighted when just one pump delivered 32,000 litres a day up to their four 11,000 litre tanks. There are good reasons why smaller rivers and streams are usually better. Firstly, larger rivers are generally flatter and a good fall of water is required to power a ram pump. Secondly, pump security is more assured with a smaller river – all rivers are prone to flood so your pump is less vulnerable with a stream.



Living Waters Village occupies 280 hectares in the Kalimantan area of Borneo.



The large Mangat River and the small creek used to supply the Papa Pump.

One Papa Pump delivers 32,000 litres of water per day without using any electricity or fuel



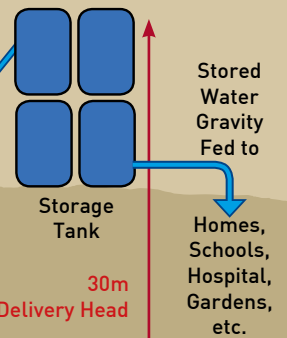
Catchment Dam



Supply Tank



Papa Pump



15m Supply Head

400m

90m

230m

30m Delivery Head

Papa Pump Performance Chart
Delivery Flow (litres/day)



(based on 60 litres/min through the Papa Pump)

Supply Head (Fall)	20	25	30	40	50	75	100	150	200	250	300	400	
31										25920	20736	17280	15120
23										19008	17280	15120	11232
15										12096	10368	8640	6048
11										9504	8208	6912	5184
9										7776	6848	4752	3888
6										5184	4320	2592	1728
3										2592	1728	1296	864
2										1296	864	864	864
1										864	864	864	864
	6	7.5	9	12	15	23	31	46	62	77	92	123	
	20	25	30	40	50	75	100	150	200	250	300	400	
	Delivery Head (Lift)												

Figures shown are amount of litres delivered in 24 hours

Contact Water Powered Technologies or your distributor

From the Performance Chart (left), it shows that with a Supply Head of 15 metres and a Delivery Head of 30 metres the water delivery can be estimated at 26,000 litres per day. In fact the Papa Pump at the Living Waters Village is delivering 32,000 litres per day!

The Living Waters Village is now considering installing more pumps - a second and third pump will double and triple the daily delivery - and all without using any electricity or fuel!

Easy self-install saves money

If you have basic groundwork knowledge and the tools available, a Papa Pump is easy to self-install. Water Powered Technologies provide a range of written installation guides and videos which show principles and tips to maximise the efficiency of your system.

Living Waters Village installed their own system with a little guidance from Water Powered Technologies, which resulted in a successful long term water delivery solution.

Advantages of a Papa Pump System...

- Uses no fuel or electricity
- Pumps water 24/7
- Very low maintenance
- Light and Portable
- Easy Installation
- Ready for Self Installation
- No CO₂ emissions

Papa Pump



the pump that uses no fuel!