

WATERTANKS & BOREHOLE



The galvanized rainwater harvesting tanks



The borehole still needs more depth.

We lost some 10 working days around Christmas. The underground is

unexpectedly rocky. It takes more time than anticipated before we reach the proper depth. Some 10 more feet have to be dug out, which will ask for at least another week. Cementing the borehole wall and installation of the hand pump will take another few days. The hand pump with accessories are at the site.



Gutter, pipes and solar light



Towing up bucket with soil and stones



A tap on one of the tanks to fetch water



Heavy work



Heaps of rocky material from the borehole



Emptying the bucket

HOW TO GET THE WATER FROM BOREHOLE TO HARVESTING TANKS? SOME GOOD NEWS AT THE END!

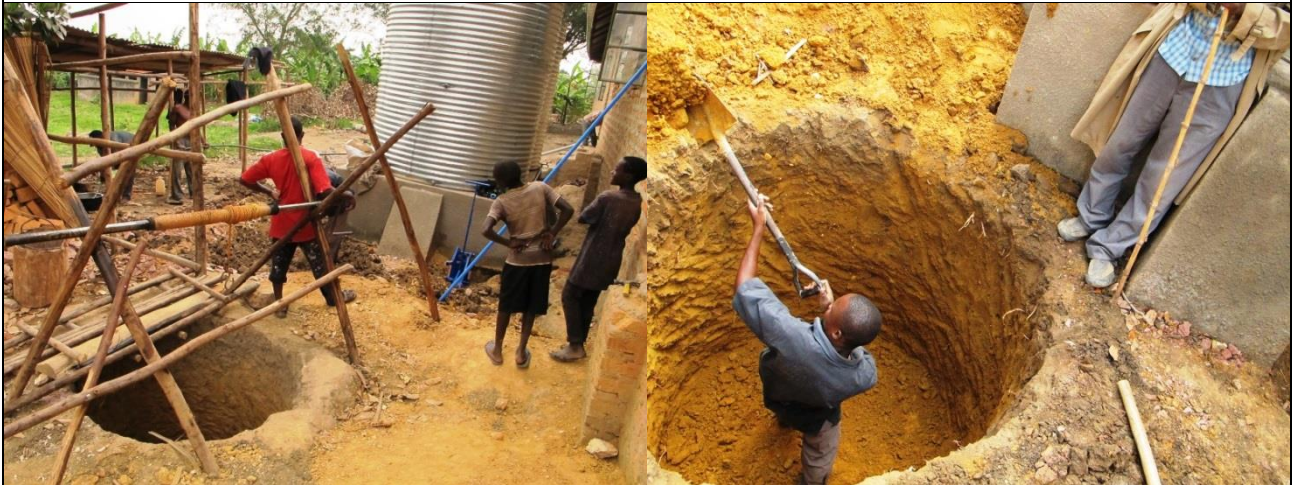
Pumping the water from the borehole into the rainwater harvesting tanks in times of insufficient rain with a pump running on electricity or fuel is out of reach in view of costs.

We therefore planned to pump the water from the borehole with a peddle pump into the tanks. However, the borehole is too deep for a peddle pump. So, we had to develop an innovative solution. The solution is a normal borehole with a handpump where school population and villagers can pump their water in jerrycans for cleaning, laundry and other home use.

It is also possible to pump the water directly into a 2.000 liter plastic tank.

This tank is "burried" underground near to the borehole and the galvanized tanks.

The peddle pump can pump water from this plastic tank into the galvanized rainwater harvesting tanks. Additional advantage (in case of need): you can also fill the plastic tank directly with jerrycans.



Borehole, plastic tank and (blue) peddle pump

Digging the hole for the 2.000 liters plastic tank



Making a "soft" bed for the plastic tank

Hole for plastic tank with soft bed



The 2.000 liters plastic tank on its way

The tank arrives at the spot



Less heavy than it looks



There it goes



Fixed! Environment still to be finished.



Making a slab for peddle pump and tap on tank



Making a cover of bricks and iron sheets



Almost ready



THE GOOD NEWS

We managed to get a Filtrix Water Purifier. We are planning to install the water purifier with the stainless steel drinking water storage tank on the 28th of January.

The MT will be present to officially accept all facilities. It is the intention to sign on that day the Donation Agreement with Marburg-Rakai Initiative and the Service Agreement for preventive maintenance with Tusaidiane Uganda.

At that occasion Tusaidiane Uganda will also bring in the text books for the new Academic Year, which starts on Monday, the 3rd of February with clean and safe drinking water for pupils, staff and community, if everything goes as planned.

COMPLETION OF BOREHOLE AND CONNECTIONS TO WATER RESERVOIRS



Above left
Construction of the bore hole wall after reaching sufficient depth

Above right
Installation of manual bore hole pump and construction of slab

Left
Plenty of water!



Above
There is a tap (red one) for filling jerrycans for school and home use.
The green pipe with the yellow valve goes to the 2.000 liters underground tank (see previous report) for filling the big galvanized tanks with the pedal pump in times of insufficient rain.

Left
There is even a back-up provision for filling the underground tank, if –for whatever reason- the borehole would be out of order. You just collect water with jerrycans from swamp or another water source and power IT from in the grey pipe.



SS-tank in cage for storing purified water with 2 taps on green poles for tapping safe drinking water