

Water, Sanitation, Hygiene (WASH) Improvements at the Mpapa Health Center, Tanzania

Progress of work performed August 2022 – October 2022



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**PHASE 2: Health Center compound distribution lines,
water storage tank construction, and water point construction.**



In collaboration with Sanitation and Water Action (SAWA), a Tanzania-based WASH NGO, and with generous support from our donors and partners, WEFTA is working to improve WASH resources for the Mpapa Health Center, a Catholic-run healthcare facility in the Mbinga Diocese of Tanzania.



Trenching for the Distribution Line

Community members work
to dig trenches for the
distribution line.




Distribution pipe will be set in the trenches and buried.



The water distribution pipe in this case will run to community water points.



Water Storage Tank Construction

A photograph showing two workers in a rural, wooded area. One worker, wearing a yellow hard hat and a high-visibility vest, is using a shovel to clear reddish-brown soil. The other worker, wearing a white hard hat and a high-visibility vest, stands nearby. In the background, there is a pile of logs and a dense forest. In the foreground, there are concrete blocks and a small green plant.

After identifying the best location for the water storage tank, SAWA workers clear the site.

Concrete blocks for the water storage tank construction are formed on-site.



Hard rock is brought to the site for the construction of the water tank foundation.



The initial water storage tank 'footers' are set.







The tank foundation footers and floor foundation are connected.



Concrete is poured over the entire foundation and tamped into all the joints.



The water storage tank
foundation is complete.

SAWA workers cut steel re-bar for the water storage tank base.



The tank base, sitting on top of the tank foundation, is made up of multi-layer reinforced steel re-bar and concrete.



Final re-bar layout before
the concrete pour.



The water tank concrete base
is poured in small batches.





The concrete base is finished in-between pours.

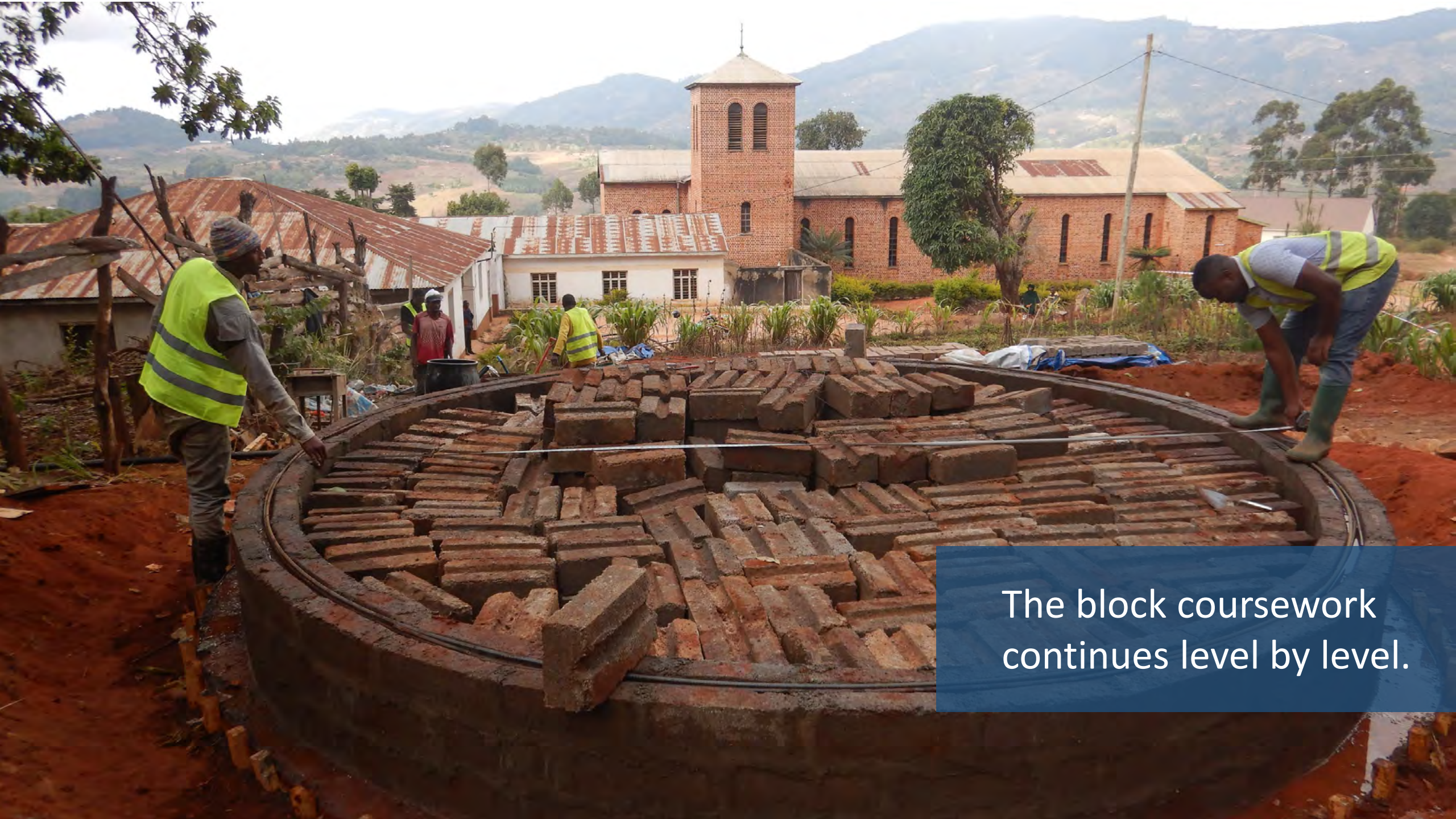




With the concrete base finished, the first course of the concrete block is set, and the first steel reinforcements are put in place.



Steel re-bar is tied into each block course vertically and horizontally.



The block coursework continues level by level.

Care is taken to ensure
the block courses stay
plumb and level.








The SAWA team
continues each
course.





Scaffolding is prepared on-site to continue the block courses.



A photograph of a construction site. In the foreground, there is a large, rectangular concrete foundation. A wooden scaffolding structure is built around the foundation, consisting of vertical wooden poles and horizontal wooden planks. A large, light-colored wooden plank is leaning against the scaffolding. In the background, there is a pile of concrete blocks. The scene is set outdoors, with trees and a dirt path visible in the distance.

With scaffolding in place,
the next courses of blocks
continue.









The inside of the tank is plastered with a cement, sand, and waterproof additive from top to bottom.




The final scaffolding is constructed to prepare for the water tank top.



Plastic is laid out on top of the tank roof in preparation for steel reinforcement and concrete.






A photograph showing three construction workers on a construction site. They are standing on a grid of steel reinforcement bars (rebar) laid out on a dark surface, likely the top of a concrete tank. The worker in the center is wearing a yellow hard hat, a high-visibility yellow vest over a grey shirt, and dark trousers with rubber boots. He is leaning forward, looking down at the rebar. To his left, another worker in a yellow hard hat and high-visibility vest is standing and talking on a mobile phone. In the foreground, a third worker wearing a brown hat, a dark jacket, and green rubber boots is crouching and measuring the rebar grid with a tape measure. The background consists of tall, thin trees and a hilly landscape under a bright sky.

Steel reinforcement
for the concrete tank
top is critical.



Wood form boxes are built for access to the tank top, and the control valves.





Galvanized piping
is cut for the tank
outlet, clean-out,
and overflow.

The tank is painted for protection from the elements.










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Community Water Point Construction

The water point area is cleared and leveled. Water points will be placed in reasonable access areas of the compound for the healthcare facility and community use.





Local rock is used
for the water
point base.



Excess water from the tap stand will fall into a 'soak-away-pit'.

Concrete is added to the rock structure below to form the tap stand pad.





The tap stand form is filled with concrete to protect the water line.



The tap stand
base is prepared
for the final
touches.



The water control valve box is also poured with concrete and finished.



Completed Community Water Points














Facility Plumbing and Fixture Improvements

New indoor plumbing
is installed for the
shower.



Finally, a working
shower with water!





Outdoor water connections are repaired and improved.



New toilets are
installed.



New faucets are
installed on
existing sinks.





New faucets are installed on the existing outdoor water points.


Spring Capture Fencing and Protection

The area around
the spring capture
is fenced.







A photograph showing a person from behind, wearing a bright yellow high-visibility safety vest with reflective silver stripes, a dark long-sleeved shirt, and dark trousers. They are working on a retaining wall made of large, rough-hewn stones. A chain-link fence is draped over the wall and the ground in front of it. To the left, a concrete structure with a dark opening is visible. The ground is uneven and appears to be a mix of dirt and rocks.

The land around the
spring capture is
protected with short
retaining walls.









We are grateful for our generous donors in supporting this project. Funding to complete the first phase of the water supply portion of this project (source capture, transmission line, water storage, and community tap stands) is in place.

We are seeking donors to fund the second phase of the water supply portion of this project which will include water treatment, followed by the third phase of the project: wastewater system construction.

If you would like to help, please consider **making a donation**, or contact us for more information at *info@wefta.net*.

Progress
Report #3
Coming Soon!



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