



HONDURAS

Kilometro 13 Community

MOSS TECHNOLOGIES

KILOMETRO 13 COMMUNITY

ATLANTIDA, TELA, HONDURAS

LATITUDE: 15.696759, LONGITUDE: -87.57858

ABOUT THE COMMUNITY

The water crisis was an everyday reality for the 30 households living in the Kilometro 13 community. Those responsible for collecting water, primarily women and children, would walk multiple times each day to a nearby stream. The water level in this stream was inconsistent. During drier months, it would dwindle completely, and the community members would go as long as a week without being able to access water. The task of collecting and hauling water was burdensome and time-consuming.

Furthermore, when the community members did collect water for their families, there were other risks to consider. They knew that the water from the stream was contaminated. They saw livestock and other animals bathing in the water sometimes. Yet they had no other option, and they would drink the water out of sheer necessity. This meant that they would contract water-related illnesses. Because they rationed as much water as they could for drinking, they would forgo sanitation and hygiene, and this perpetuated the spread of illnesses.

The ravages of the water crisis extended beyond the borders of the community. Sadly, the local school that served children from surrounding areas was the most hard-hit by water scarcity. There simply was not enough water to provide for the needs of all the students. The children would interrupt their studies to access water from the stream and would miss even more time in the classroom when they suffered from water-related illnesses. The water crisis was hindering these students' learning process.



The community members draw water from this shallow stream.



This is a typical home in the community.

The principal of the school, Eraida Posada, believed he knew of a possible solution. He decided to reach out to Living Water International, whom he knew was helping to end the water crisis for other communities in the region. The Living Water Honduras staff were glad to respond to his request by making a visit to the community. Once they visited Kilometro 13 and saw the dire situation firsthand, they agreed to drill a safe water well on the premises of the school. The community and the school administrators were thankful to learn that the project could begin soon



The Living Water staff set to work.

MAIN WATER COLLECTORS	students
NUMBER OF HOUSEHOLDS	30
TERRAIN	rural

thanks to your generosity, Moss Technologies.

The drilling team soon returned and set to work drilling. They eventually reached a safe water aquifer 25 meters deep. They flushed out the borehole to clear it of sedimentary rock debris. Once the team cased the borehole with PVC, formed a gravel pack, installed a sanitary seal, and mounted an Afridev hand pump, the well was complete!



The well is complete!

CONSTRUCTION DETAILS

ALTITUDE **18 m**

DRILLING METHOD **WETROTARY**

DEPTH DRILLED **25m**

STATIC LEVEL **6m**

CASING EXTERNAL DIAMETER **100mm**

CASING MATERIAL **PVC**

PUMP TYPE **HAND PUMP**

GRAVEL PACK DEPTH **20m**

SHOCK CHLORINATION **YES**

PLATFORM MATERIAL **CONCRETE**

WATER QUALITY TESTS

TOTAL DISSOLVED SOLIDS **102 ppm**

PH **7**

TOTAL HARDNESS **120 ppm**



Safe water is now plentiful on the grounds of the school.



This student enjoys the safe water from the well for the first time.

SUSTAINABILITY

The community also learned some essential best practices that would help them maintain their safe water quality and management. The community members nominated a water caretaker, who would remain in contact with Living Water Honduras about the functionality of the pump. Also, he would collect a small, monthly fee from each household for use of the water in order to save a fund to cover the cost of future repairs needed for the well. In this way, Kilometro 13 would begin implementing community-driven solutions, affirming their own capacity to impact their way of life. The gift of safe water provides the students with better health, allowing them more time in school. As they watch the safe water management modeled by their community, they would be prepared to carry on this legacy in the future.

"Thank you very much for this well. We are thankful to Living Water as well. During the dry seasons, we used to go without water for as long as a week. Now we have water access 24 hours a day at the school, and it will benefit the whole community. May God bless you wherever you go. "

— *Eraida Posada, 39-year-old school principal*



Eraida (left) tells his story.

SANITATION & HYGIENE

The Living Water staff also led a sanitation and hygiene training for 21 participants at the school. The interactive components of the lessons made the sessions fun and easily understandable for all age groups

The Living Water Trips team and staff demonstrated the correct way to store water safely and use the pump correctly. They also explained the basics of germ theory and disease transmission. They told stories about how disease transmission can occur. The participants learned that handwashing was the best way to keep themselves healthy.

A more prescriptive lesson used a specialized doll to illustrate how dehydration and diarrhea are a vicious cycle that quickly drain the body of fluids. The team taught the participants how to mix a solution of safe water, salt, and sugar to treat these symptoms.

Each of these lessons helped prepare the students to make healthy choices the standard in their classroom. They would also bring their healthy habits to their homes and influence their families. Gradually, these household trends would transform the health patterns of the entire community.



The Living Water staff lead a sanitation and hygiene training at the school.

IN JESUS' NAME

The Living Water staff also dedicated time to discussion of the gospel. Using a new approach, called Bible storying, they taught Scripture in a way that was universally understandable for all 21 participants. In this way, the participants learned the story, "The Miraculous Catch of Fish." This story taught them how the Lord's power is greater than their own and that he intercedes in their lives to give them good gifts.

At the end of the week, the Living Water Trips team, staff, and community came together to dedicate the new well back to God's Kingdom. They gave thanks and prayed the well would continue to nourish the bodies of all who used it and remind each heart of Christ's *living water*.

YOUR IMPACT

Moss Technologies, the gift you gave to the community of Kilometer 13 instantly ended their water crisis but also has long-term implications. Each of the 120 water users can potentially access 35 liters of water per day! Because the safe water well is on the premises of the school, the students will save countless hours and reserves of energy. They can be more focused on their school work and free time. Their parents and administrators have new peace of mind that they will be safe—no longer walking to the stream to collect contaminated water. The overall health of the community will be improved as a result. Safe water changes everything!

Thank you for giving water, for life, in Jesus' name.



Thank you for giving the gift of safe water, which testifies to the *living water* of Christ.