



FIVE SECTOR WRAP UP REPORT

MARCH 2017

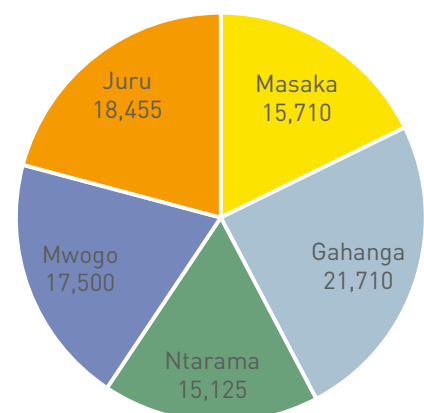
Mukasonga Epiphanie is a 52-year-old widow living in the Mwogo sector of Rwanda with her five children and four grandchildren. Clean water is not available in her community, so they draw water from a nearby swamp. They were going to the health clinic 3-4 times a month because of diarrhea and stomach issues caused by water-borne diseases. Epiphanie and her children were frequently unable to work and her six-year-old grandson had to drop out of school because he was sick too often. In September of 2015, her family received a water filter from 20 Liters. Since then, the family has become healthier and are able to work more regularly because their water is free of bacteria and parasites. The health of the six-year-old has improved so much that he returned to school. Using the money her family was able to save on medical expenses and earn by working more, they were able to buy three goats. She is grateful that the filter is bringing her family health and economic prosperity.

In 2012, 20 Liters announced plans to reach 87,702 people in five sectors along the Nyabarongo River in Rwanda, including Masaka, Gahanga, Ntarama, Mwogo, and Juru. We are thrilled to have exceeded our goals in these sectors – reaching 88,500 people with clean water.

Rural Rwandans live in a constant struggle with the water around them. Many residents use a local river, swamp or lake as their primary water supply. These waters are often contaminated with human and animal excrement, worms and bacteria. This reality contributes to sickness, absences from school and work, and even death from diarrhea, dehydration and waterborne diseases.

The mission of 20 Liters is to make dirty water clean for the most vulnerable using long-lasting and innovative solutions. Our values are rooted in a desire to partner with the most vulnerable to empower their communities with sustainable solutions to support a basic human right – access to clean water.

People Reached with Clean Water



20 Liters makes dirty water clean by utilizing three primary solutions including:

SAM2 COMMUNITY FILTERS

Our SAM2 Filters are large-capacity sand-and-membrane filters that can provide clean water to 400 people each day. Primarily installed in health clinics or schools, these filters are accessible to all members of the local community.

According to a 2015 assessment by the WHO and UNICEF, water-related diseases impact more than 1.5 billion people every year. By providing Community Filters to health clinics, we help to ensure that those seeking treatment for water-related illnesses are able to take their medicine with clean water and bring a full container home with them. *20 Liters has installed our SAM2 Filter in 8 health clinics in the targeted sectors, reaching an estimated 3,200 people with clean water.*

According to a 2006 report by the United Nations, 443 million school days are lost each year due to water related diseases worldwide. Not only are children missing school because of water-related illnesses, but the time children spend walking to collect water could be time spent in school. Making clean water available in the classroom not only alleviates the time children must spend collecting water, but acts as an incentive for children to attend school more regularly. *20 Liters has installed our SAM2 Filter in 21 schools in the targeted sectors, reaching an estimated 8,400 people with clean water.*

SAM3 HOUSEHOLD FILTERS

Our SAM3 Filter increases household access to clean water. This smaller version of the SAM2 filter is placed in households for a family and their neighbors. Each household receives a 3-hour training on the working of the filter and health and hygiene lessons. Local volunteers are assigned to each family to follow-up 4 times within the first 6 months. Families are also provided a phone number of the lead volunteer in case they experience any issues with the filter. *20 Liters has distributed filters to 8,440 households, reaching an estimated 42,200 people in the targeted sectors with clean water.*

RAIN WATER HARVEST SYSTEMS

Rwanda has a long rainy season that provides 40 to 50 inches of rain a year—and it only takes 5 inches of rain to fill a 10,000-liter cistern like those we install as a part of our Rain Water Harvest Systems. We place these tanks at local churches, since they are often closer to people's homes than the river or swamp, reducing the time spent traveling to collect water from other sources. Churches sell the water at an affordable rate and use the income to maintain the system. Remaining funds are administered by the churches, which often use them as a benevolence fund for the poorest members of the community for medical bills, school fees, uniforms, and other unaffordable costs. *20 Liters built 67 Rain Water Harvest Systems at churches in the targeted sectors - providing 35,000 people with closer access to water.*

IMPACT

Our work does more than make dirty water clean – access to clean water can lead to improvements in health, education and has an economic impact on the families we serve.

According to survey results from Ntarama and Mwogo:

96.8%

of families report an improvement in health since receiving their filter. In addition, families with filters drink at least twice as much water and are 40% more likely to drink the recommended 2 liters per day, leading to improved hydration and decreases in illness and fatigue.

88%

of families with school children report that attendance has increased since receiving the filter.

86%

of families report saving the equivalent of \$1.00 or more per month. This is the equivalent of \$1,750 per year for a person making \$40,000.