



# GLOBALMEDIC

## Rotary Club of Stratford

### CLEAN WATER

In the aftermath of a disaster, access to clean drinking water is often in short supply. The usual water sources can become damaged, flooded and contaminated, forcing people to drink water that can make them extremely ill. Roads can become blocked or swept away in floods making it difficult of aid to be transported where it is needed most. Ceramic filters are among the easiest and most cost effective solutions to this challenge as they are lightweight and easy to transport quickly into a disaster zone.

Using Rainfresh ceramic filters that remove 99.9999% of bacteria and cysts that can make you sick, the Rotary Club of Stratford built Aquabox Water Purification Units to be distributed by GlobalMedic to disaster victims. Providing clean water alone is not always enough so GlobalMedic and the Rotary Club added hygiene items including bars of soap, tubes of toothpaste and toothbrushes to the Aquaboxes to make them a complete Family Emergency Kit.



### THE AQUABOX

The Aquaboxes built by the Rotary Club of Stratford contain three Rainfresh ceramic filters. Rainfresh's ceramic filtration technology traps pathogenic bacteria (e.g. E. Coli) and protozoan cysts (e.g. Cryptosporidium & Giardia) in addition to reducing sediment and suspended matter down to 0.3 micron (1 micron = 1/1000 mm). The units are comprised of two separate water containers: one for the untreated water and the other for safe drinking water. Both containers are constructed from sturdy, food grade plastic. The upper container holds up to 12 liters and houses a ceramic cartridge through which the untreated water flows under gravity. As water passes through the ceramic cartridge, harmful bacteria and cysts are trapped inside the cartridges and safe drinking water passes through. Clean water then collects in the bottom water container. A spigot provided with the unit dispenses the treated water for use in a sanitary way. The unit will purify 2.25 litres per hour of clean drinking water – enough to support the needs for an entire family.



### DISTRIBUTION SUMMARY

In the past year, the Rotary Club of Stratford and GlobalMedic distributed 1628 Aquaboxes to families affected by disasters:

- Mozambique - Cyclone Idai - 277 Aquaboxes
- Paraguay - Flooding - 602 Aquaboxes
- Somalia - Famine and Drought - 749 Aquaboxes

Thank you Rotary Club of Stratford!







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## MOZAMBIQUE

### THE CRISIS

Tropical Cyclone Idai made landfall on March 14th, 2019 near Beira City, Mozambique and continued to cross land in the country. The storm caused flash flooding, resulting in subsequent deaths and injury, as well as destruction of livelihoods and properties. Damage from the storm was severe, with over 91,000 houses destroyed, 477 deaths, and more than 1,522 injured. Approximately 128,000 people were displaced having to flee with nothing, and over 600,000 people were affected. The cyclone brought torrential rains and winds to Sofala, Zambezia, Manica and Inhambane provinces. The displaced people were sheltered in 154 sites across Sofala, Manica, Zambezia, and Tete.

Four months later, the damage caused by the cyclone was still apparent. Homes, hospitals, schools and businesses were still without roofs. Many families still did not have access to clean water.

### THE RESPONSE

GlobalMedic was on the ground within days of the Cyclone providing clean drinking water to affected communities. During GlobalMedic's third deployment to Mozambique, the Rotary Club of Dondo in Mozambique coordinated with GlobalMedic's Rapid Response Team to distribute Family Emergency Kits. In addition to providing vulnerable people with clean drinking water, the Aquaboxes also contained hygiene items such as soap, toothbrushes, and toothpaste. The Aquaboxes were distributed in communities such as Dondo, Mafambisse, Tica and Nhamatanda. Included in these distributions were several hospitals and orphanages which had all suffered damage from the cyclone. One of the orphanages had 36 children and the 14 boys all had to share one room. The orphanage got their drinking water from a borehole but had no way of purifying it. Now, with the Aquaboxes, they have access to safe drinking water to keep the children healthy.

Click [here](#) to view video of Aquabox distribution in Mozambique.



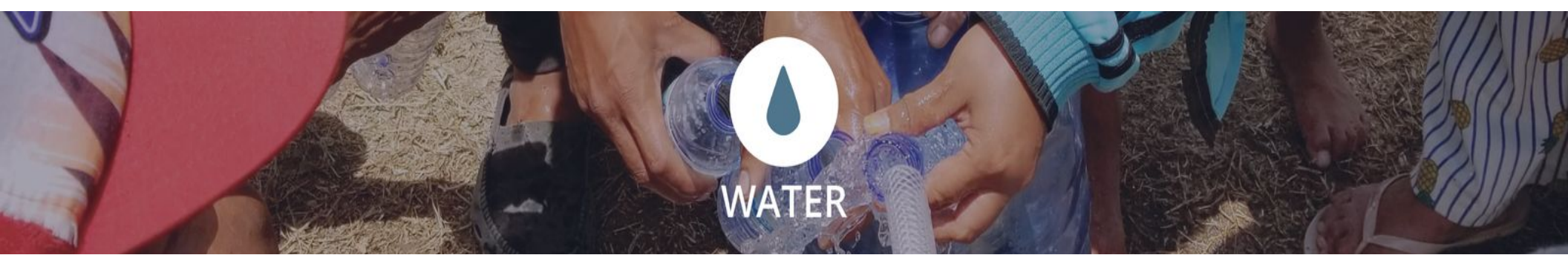
### DISTRIBUTION SUMMARY

277 Aquaboxes helped 1219 people in the following areas:

Mafambisse Health centre  
Community of Chirassicua  
Health Centre and Maternity ward  
of Chiassicua-Lamego  
Nhamatanda Hospital  
Nhamatanda Orphanage  
Boa Pastor Church, Mafambisse

Escola EPC  
Communities of Cheadeia  
Tica Health Centre  
Bom Samaritano Orphanage, Mutua  
Community of San Tiago, Mutua  
Filadelfia Orphanage  
Mutua Health Centre

## Thank you Rotary Club of Stratford!







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## PARAGUAY

### THE CRISIS

Paraguay is one of the poorest nations in South America, leaving its most vulnerable citizens without the capacity to cope with natural disasters. The Indigenous population is further marginalized by discrimination and a lack of economic, social and cultural rights. This chronic cycle of poverty leads to other issues including malnutrition which leaves people even more vulnerable to dangerous waterborne illnesses.

In 2019, Paraguay experienced constant heavy rain which caused unprecedented and deadly flooding. In 2020, strict lockdowns enforced to control the spread of COVID-19 have had further negative impacts on the economy and the country's unemployment rates, leaving Indigenous families even more vulnerable to the health problems from a lack of access to clean water.

### THE RESPONSE

GlobalMedic and the Rotary Club of Stratford responded by shipping 602 Aquabox water purification units.

Each Aquabox contained 3 ceramic Rainfresh water filter cartridges to provide a family with clean drinking water for up to a year. Packed inside the Aquaboxes were hygiene kits which included 12 bars of soap, 5 toothbrushes, and 2 tubes of toothpaste.

The kits were distributed by the Office of the First Lady of Paraguay to indigenous villages, many of which had previously received very little aid. Before receiving the Aquaboxes, many of the families had no way to clean their water and they were extremely grateful to receive the donation of the Aquaboxes and have safe, healthy water to provide to their children.

Click [here](#) to view video of Aquabox distribution in Paraguay.



## DISTRIBUTION SUMMARY

**602 Families Received Aquabox Water Purification Units in the Following Villages in Paraguay:**

Madian, Stivis, Camp Lechuza, Ganso, Canausa, Belen, MCAL.  
Lopez, Tarso, Efeso, 10 De Agosto, Nazareth - Barrio Obrero,  
Caacupe, Campo Bello, Estancia Efeso.



WATER





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## SOMALIA

### THE CRISIS

The humanitarian crisis in Somalia is one of the longest and most complex in the world. There are 4.2 million people in Somalia in need of humanitarian assistance and protection. Of those, there are 954,000 acutely malnourished children under the age of five.

Since 2012 – when a widespread famine killed 250,000 people – Somalia has been struggling to fully recover. Ongoing droughts continue to pose a significant risk of famine to the affected population. Widespread malnutrition is due to several factors, including a lack of access to healthcare, clean water and good hygiene. This puts the hundreds of thousands of people living in internally displaced persons (IDP) camps at risk of contracting deadly waterborne illnesses.

There is an immediate need for humanitarian actors to address the widespread lack of clean drinking water.

### THE RESPONSE

GlobalMedic was awarded an International Food Relief Partnership with USAID to reduce the risk of acute malnutrition in children in Somalia. Through this grant, 12,000 children received a six month dose of Plumpy'Doz nutritional supplement. In the shipments of Plumpy'Doz, GlobalMedic included 5,874 Family Emergency Kits to ensure that the children receiving nutritional support also had clean water and hygiene items to keep them healthy.

Thanks to a generous donation from the Rotary Club of Stratford, GlobalMedic shipped 749 Aquabox Family Emergency Kits to Somalia in April 2020. Each kit included a Rainfresh Water Purification Unit which can provide a family with clean drinking water for a year. The kits also contained soap, toothbrushes and toothpaste to help keep families clean and healthy.



### DISTRIBUTION SUMMARY

749 Families Received Aquabox Water Purification Units in Somalia

