



## > Water and Sanitation

Since the mid 1990's, CHF International has combined our unique participatory methodology of working with communities, with our construction management know-how to numerous water and sanitation projects. Many of the programs have been completed in post-conflict or natural disaster situations, necessitating rapid construction methodology.

Since 2000, over 31,000 projects, including grey water systems, wells, latrines and water basins have been completed. CHF has also connected over 35,000 meters of sewage and water supply lines, improving sanitation and health of thousands of people. CHF's water and sanitation projects have also included numerous irrigation systems for farmers, supplying water to thousands of hectares of agricultural land, as well as a handful of solid waste management programs. These programs are comprehensive, low-cost, and integrate all phases including production of waste, transportation, storage and processing and disposal. By addressing each aspect, CHF not only curbs the issue at hand, but provides numerous jobs for the community at many skill levels as well as community wide education about the hazards of improper disposal of waste.



CHF International has worked on water and sanitation projects in over 15 countries, each time ensuring that there is local participation not only in the decision making process, but also the design and construction of the projects. Training on the maintenance and continual operations of the new system is always included in our projects, as people's ability to use the system is key to improving health and sanitation of the recipient community.

**Examples of CHF's capacity in water and sanitation include:**

**Dominican Republic – Post-Hurricane George Housing Reconstruction Program - \$8.3 million, USAID**  
Following the devastating hurricane in 1998, CHF responded quickly with a program that not only provided new houses and housing reconstruction, but equipped 641 of these houses with new water and sanitation systems. For the three year duration of the program, CHF worked with local organizations to not only improve their current status, but increase their resilience to destructive natural disasters in the future.

**El Salvador – AHORA Housing Construction Project - \$20 million, USAID**  
From 2002-2004, CHF constructed over 4,500 latrines and wash basins, 124 grey water collection tanks, 8,794 soak pits for these grey water systems and 191 leach fields. This, in addition to the construction of over 4,700 houses, encompassed a relief program for the victims of the February 2001 earthquakes in the region.

**Indonesia – Lamno Water and Sanitation Systems - \$1.2 million, AmeriCares**  
Over the course of this program, from 2006-2008, CHF constructed over 5200 meters of drainage pipes, 267 septic tanks and three water towers. This program created a complete water sanitation system for the people of Lamno affected by the tsunami.

**Lebanon – Humanitarian Assistance in Lebanon - \$3.8 million and \$2.6 million, OFDA**  
A program divided between two phases, the HAL program increased access to potable water, irrigation, and hygiene education promotion materials for Internally Displaced Persons as they returned to their homes and villages following conflict in the region in 2005. From 2006-2007, CHF laid nearly 16,000 meters of pipe for water transport, constructed 1,139 water reservoirs and installed 586 irrigation pipes to replace those previously damaged in the unrest. CHF worked with the local Water Authority in southern Lebanon on this project.



**Ethiopia**



**Iraq**



**El Salvador**



**Haiti**

*Highlight of Recent Responses*

<i>Country</i>	<i>Program</i>	<i>Year</i>	<i>Results</i>
<b>Afghanistan</b>	<b>AADR</b>	<b>2002-2003</b>	<b>64 wells</b>
<b>Colombia</b>	<b>PAE</b>	<b>2002-2006</b>	<b>16 sewer lines</b>
<b>El Salvador</b>	<b>Permanent Housing I</b>	<b>2001-2002</b>	<b>1,035 latrines, 570 gray water pits and 300 washing sinks</b>
<b>Ethiopia</b>	<b>GLAD</b>	<b>2004-2005</b>	<b>82 wells</b>
<b>Ethiopia</b>	<b>SWISS</b>	<b>2006-2007</b>	<b>180 pit latrines</b>
<b>Ethiopia</b>	<b>HANS</b>	<b>2007</b>	<b>23 wells, 230 latrines</b>
<b>Haiti</b>	<b>Repairing Potable Water Systems</b>	<b>200-2001</b>	<b>20 km water system pipes repaired</b>
<b>Honduras</b>	<b>Emergency Temporary Shelter</b>	<b>1998-2000</b>	<b>1,938 latrines</b>
<b>Indonesia</b>	<b>HIRE</b>	<b>2005-2007</b>	<b>783 wells, 842 septic tanks</b>
<b>Peru</b>	<b>Transitional Shelter Project</b>	<b>2007</b>	<b>135 latrines</b>
<b>Sri Lanka</b>	<b>RASSL</b>	<b>2005</b>	<b>429 permanent toilets, 966 water tanks</b>
<b>Sudan</b>	<b>SPEED</b>	<b>2005</b>	<b>42 latrines, 13 wells</b>
<b>West Bank/ Gaza</b>	<b>CSP/CRSP/ VSP</b>	<b>1999-2004</b>	<b>33 water supply, 16 health and sanitation projects</b>