



Water
for
Cambodia

Annual Report 2011

Clean Water, a Human Right not a Luxury

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Our mission is to provide clean water, hygiene and literacy education to rural Cambodian families, improving their health and helping to break the cycle of poverty.

Message from the Chairman...

I want to take a moment to reflect on the accomplishments of **Water for Cambodia** in 2011. This year marked the successful conclusion of our three-year Rotary Foundation 3H Grant. The team was commended for outstanding performance, meeting the highest standards of Rotary. Bob Aldrich, our project manager, who follows in Gunther Hausen's immortal footsteps, was front and center in this endeavor. Thank you Bob for your tireless efforts!

Our visit to Cambodia this year included a countrywide tour of our projects and partners in Cambodia led by our in-country team leaders Heng Sathya and Mieko Morgan. First we all met with members of the Battambang Rotary Club with whom we are collaborating on a Rotary Matching Grant to build filters and run literacy classes in both Battambang and Siem Reap Provinces. Following this, we visited with members of our team building 700 bio-sand filters in Kampong Speu Province under a joint venture created by Sathya and Mieko teamed with the German Red Cross. We are always amazed and impressed at the creativity, hard work and dedication of our Cambodian staff.

Water for Cambodia was also blessed by having Raya Papp join our board. She came to us after having volunteered on the project 2 years ago while working at Deutsche Bank in Singapore. In August of this year she completed the Louisville Kentucky Ironman and raised over \$15,000 for the project. In November Raya took a sabbatical from Deutsche Bank and immersed herself in the workings of **Water for Cambodia**. Raya applied her considerable business skills and led our team in a series of intensive and highly productive strategic assessments and forward planning exercises that are helping to plot our future.

Plans for 2012 include continuing what we do best, building and installing bio-sand filters and providing literacy and hygiene education. **WFC** has as major goals: to grow and strengthen our Measurement and Evaluation, to further commercialize our water-testing lab to attract new funding and to expand our networking capability and build new mutually beneficial partnerships. Hiring a new Donor Relations and Strategic Partnering Manager will be a key part of these initiatives. Together with ongoing support from Rotary, our international partners and generous donations from our annual fundraising event, **Water for Cambodia** will continue to fulfill its mission.

Sincerely,



Chris Van Hemelrijck, M.D.
Chairman of the Board of Directors

The Problem...

Cambodia is a country of 15 million people, one of the poorest in Asia and still recovering from the devastating impact of the Khmer Rouge regime. Outside of a few cities virtually no infrastructure exists. There is no electricity, few paved roads and no clean water delivery systems.

The statistics:

Over 50% of the rural Cambodian population does not have access to safe drinking water.

Only 18% have access to improved sanitation.

20% of the deaths of children under 5 are due to waterborne diseases.

32% of the population is under 14.

30% live on less than \$2/day.

Although water is in abundance, typical drinking water sources are unsafe especially in the rural villages where 80% of the Cambodian population resides.

Our Solution...

Water for Cambodia builds biosand water filters, household units that produce clean drinking water directly from contaminated sources. With over 8500 filters in place we are bringing clean water to more than 55,000 people. Literacy classes providing basic reading, writing and math skills are being provided to many of the same villagers.





Highlights and Accomplishments 2011...

By year's end **Water for Cambodia** had built a total of 8647 Biosand filters and installed 8346, run 84 six-month literacy classes totaling 2100 students with a 92% graduation rate. 2011 also saw the successful completion of the Rotary Foundation 3H Grant.

Several of our light biosand filters designed by our Cambodian project manager Heng Sathya for the floating villages on the Tonle Sap were installed in Moat Kla village. They were a huge success bringing clean water to families living in boats on the lake.

Water for Cambodia successfully won a competitive grant from the German Red Cross to build 700 biosand filters and provide them to villages in Kampong Speu Province setting the groundwork for future NGO business.

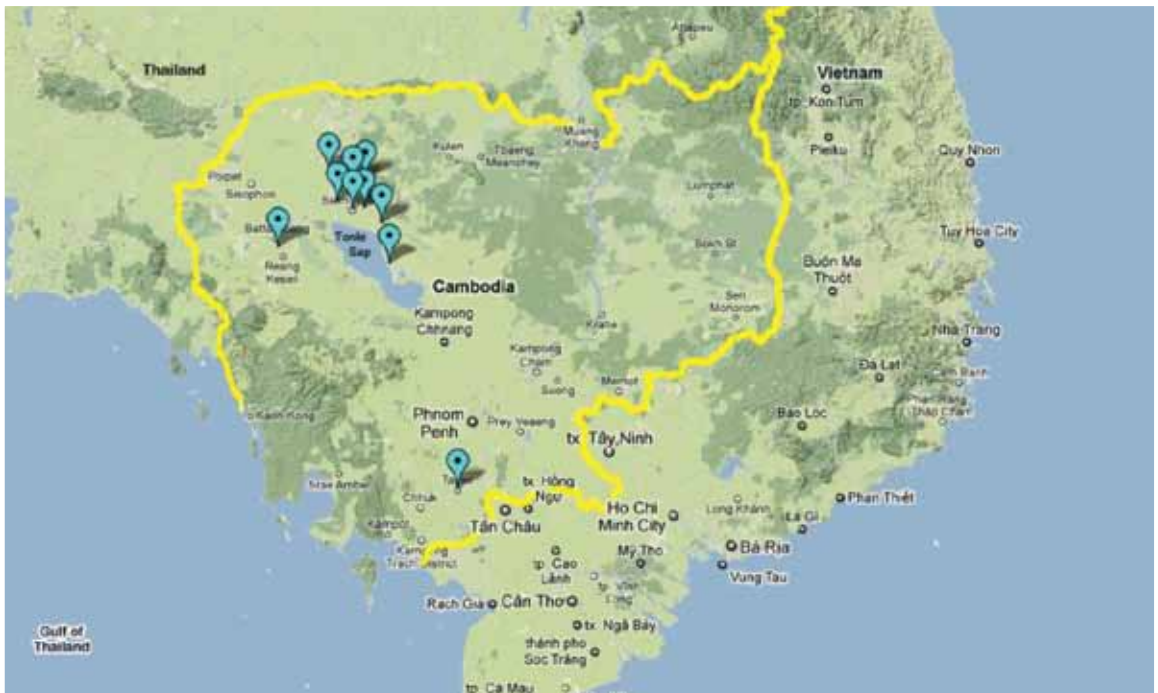
Water for Cambodia was awarded a \$65,000 Rotary Foundation Matching Grant in partnership with the Rotary Club of Battambang to build and install 400 biosand filters, run 8 literacy classes (200 students) and install a small purification system in Battambang.

Our **Water for Life** partnership with The Singapore International Foundation (SIF) with funding from Deutsche Bank and Ngee Ann Development Pte Ltd continues with installation of 350 biosand filters and classes for 173 literacy students.

Our Biosand Filter Project...

Water for Cambodia has been building and installing biosand water filters in rural villages of Cambodia since 2006. These household filters units produce clean water directly from contaminated sources. Polluted water is poured in the top, filtered through the sand and gravel layers and within minutes clean drinking water pours from the spout. The biological zone consumes harmful bacteria while the sand column removes parasites and other pathogens and removes iron found in the ground water. Each filter produces enough clean water for a family of 6-8 people for years with very little maintenance.

A family receiving a biosand filter is actively involved in the installation giving them a vested interest in maintaining their filter. Each family is trained on filter operation, maintenance and safe water storage as well as basic hygiene and sanitation techniques. Biosand filters in general require very little maintenance (occasional stirring up of the top few inches of sand and scooping the suspended sediment) and are still functioning effectively at other sites more than 10 years after installation. To learn more about biosand filter operation visit our website www.waterforcambodia.org.



Map showing districts where Water for Cambodia biosand installations are located.



Biosand Filter Impact

- Over 8500 filters built
- Serving over 55000 people
- In 202 Cambodian villages
- Helping to break the cycle of poverty

Our Water Testing Lab...

Our lab is the only water-testing lab outside the capital city of Phnom Penh 200 km away. Not only does the laboratory help us to monitor the effectiveness of our biosand filters, but it also aids in identifying areas where training in installation, use and maintenance, must be strengthened. It permits Water for Cambodia to demonstrate that it does what it promises, deliver clean, safe drinking water. The lab also offers commercial testing locally which helps fund itself.

Beyond directly supporting Water for Cambodia initiatives, our lab has become a teaching and research facility for Pannasastra University of Cambodia. Under the guidance of Dr. Kevin Curry of Bridgewater State University students from PCU utilize the lab facilities and the expertise of our technician to gain real hands on experience and conduct research in support of their academic program. This has led to a growing partnership and has allowed students the opportunity to publish their work locally



Our Literacy classes and Libraries...



As part of the holistic approach envisioned at the beginning of Water for Cambodia, basic education of the village women was considered a cornerstone for success. Our classes are offered mainly to village women who never had the opportunity to learn to read, write or do simple math. Each class has 25 students and runs for six months. They are held in the village usually at night and include education in health, hygiene and sanitation. We have 5 libraries open with plans for several more underway.

Impact.... Over 2100 students graduated

Strategic Initiatives 2011 to 2015...

1. **Build and install at the rate of at least 2000 filters per year.**
 - a. Seek additional work partners by marketing our services to other non profits.
 - b. Collaborate with other NGOs to leverage their talents and strengths.
 - c. Strengthen supplier relationships.
 - d. Revisit and follow up with households that have been using filters for at least 5 years and document findings.
 - e. Enhance the WFC health, hygiene and sanitation education program delivered to filter users.
 - f. GIS mapping of filter locations
2. **Expand local to regional to national impact.**
 - a. Expand recognition through collaboration and partnering (WATSAN, CAWST, Pannasastra University, Ministry of Rural Development and other NGOs).
 - b. Continue to support and expand efforts in other provinces (Takao, Battambang, Kampong Speu).
 - c. Leverage laboratory assets (source of income).
3. **Reach beyond Rotary funding**
 - a. Develop marketing material
 - b. Refresh the website
 - c. Continue to work with SIF
 - d. Expand community level fundraising activities
 - e. Network with businesses/philanthropists/rotary members and clubs.
 - f. Maintain 501(c)(3) status through Rotary
 - g. Enlist others to publicize the project
 - h. Continue to use and grow Social networking media i.e. twitter, facebook, causes
 - i. Add quarterly newsletter
 - j. Public school education and promotion
 - k. Find a national/international sponsor i.e. water company, Starbucks
 - l. Partner with other Rotary water projects
 - m. Form Rotary water blog
 - n. Hire a dedicated Donor Relations/Strategic Partnership Manager
4. **Put the lab results to work for us.**
 - a. Organize the data into a single database
 - b. Publish the data
 - c. Relate the results to outcomes
 - d. Market the results
 - e. Collaborate with Pannasastra and support student research under the guidance and support of Dr. Kevin Curry and Bridgewater State University.

Statement of Revenue and Expenses 2011...

Revenue:

Balance December 31, 2010	\$115,742
Donations received	\$90,506
SIF funds received ¹	\$29,540
WFC funds available ²	<u>\$52,600</u>
Total consolidated funds available	\$288,388

Expenses:

Funds transferred to Cambodia ³	\$133,678
Funds expended in Cambodia ⁴	\$8652
Other expenses ⁵	<u>\$20,400</u>
Total funds expended	\$162,730

Balance at year end \$125,658

Middletown Rotary Charitable Trust is a 501(c)(3) tax exempt organization. No member of the Board of Directors or any donor agency or individual donor receives any compensation, travel expenses or gratuity from funds raised.



Notes

1. These funds were provided through The Singapore International Foundation (SIF) by their corporate donors for work performed for their **Water for Life** project. All activities and relationships on behalf of SIF are governed by Memos of Understanding endorsed by both parties.
2. Local funds available resulting from commercial sale of lab services, commercial filter sales (to city residents only) and accumulated locally received donations. These funds are held in a dual signature account in the Siem Reap, Cambodia branch of ACLEDA Bank.
3. This represents funds provided to the project team in Cambodia covering salaries, materials, and operating costs for the biosand filter program, literacy classes, libraries and laboratory operations.
4. Includes minor miscellaneous expenses covered locally.
5. These costs cover miscellaneous expense items associated directly with fund raising. No member of the US or Cambodian Boards of Directors receives any compensation or allowances in their capacity as a member. Two members of the Cambodian BOD are employees of **Water for Cambodia** and receive salaries in that capacity only.



Team in Cambodia

Raya Papp on the bike leg of the Louisville Kentucky Ironman which she raised over \$15,000 for Water for Cambodia!



Annual Dinner Fundraiser at the Officers' Club in Newport, RI

Family Stories...

Meet Heng Pich and family from Peak Spea Village

“The filter saves money on medicines and hospital visits because since I have been using my filter my children have no more diarrhea.”



Meet Kou Loun from Ou Village

“Before I had the filter my family had to spend much time to find clear water. The filter also makes the water taste better. When my family leaves home they take filtered water with them.”



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