



# Water for Life Introduction by Charity Bwiza

Water is the most important natural resource for human been the focal point. Because children are powerful agents of health and development and since there are no alternatives social change and because they are highly adaptable to new to water, it is of critical importance to protect and sustain the existing water ecosystems. By providing clean and safe water to local communities and by creating awareness on sustainable water use and responsible water consumption, the Water School Project supports conservation of valuable natural resources as well as it contributes to increased human wellbeing and social and economic development for the benefit of both people and nature.

Under the Water School Project pupils and local populations in Kanungu District have been enabled to address ecological, economic, social, and cultural issues in relation to improved water access and management as well as health promoting sanitation and hygiene. Throughout the project children have



ideas, the project has applied pupils and students in primary and secondary schools as the main drivers of change. The children have been encouraged to utilise their creativity and powers of persuasion in a concentrated and directed way, which has proved to be highly effective. This is evident in and around the Water Schools where there has been a visible change in water, sanitation and hygiene practices followed by great improvements in health, personal appearances and local production levels.

The Water School Project in Uganda is implemented by the Bwindi Mgahinga Conservation Trust (BMCT), established in 1994 to provide long-term reliable support for projects promoting research on conservation of biological diversity and sustainable use of natural resources in the Mgahinga Gorilla National Park (MGNP) and Bwindi Impenetrable National Park (BINP) while at the same time promoting the welfare of neighbouring communities.

This booklet is about the experiences and lessons learned during the Water School Project in Uganda.

> Charity Bwiza Programme Managemer, BMCT

# The Water School Project In Uganda

#### Goal:

Conservation of Bwindi Impenetrable National Park watershed through effective community participation in sustainable water use and management.

#### Purpose:

Improved sustainable water use and management in 20 schools and 2,000 households adjacent to Bwindi Impenetrable National Park in Kanungu District





# Access to water

Clean water is a basic human right. Therefore, access to safe water—system, which includes four reservoir tanks (of capacities; 150m<sup>3</sup>, is a step towards an improved living standard and a better life. Water 100m<sup>3</sup>, 50m<sup>3</sup> and 30m<sup>3</sup>), five break pressure tanks, 58 tapstands poor communities are typically economically poorer compared to and one protected spring. At schools located where the Banyara those with reliable access to clean water. Each day, economic and Gravity Flow Scheme has not been able to reach, 30m<sup>3</sup> or 20m<sup>3</sup> social development opportunities are lost to the negative effects rain water harvesting tanks have been constructed to provide water of water bourne illnesses and to the time consuming process of for learners and teachers. collecting water where it is not readily available. Particularly children and women bear the brunt of these burdens as they are responsible The provision of accessible clean and safe water has reduced for providing water in most households. They spend numerous the distance to water points from two to four kilometres to hours fetching water from sources often situated far from their less than 500 metres, resulting in a great reduction in time homes. Time that could have been far better spent on productive and energy consumption. The extra time is spent on extended activities and education.

To address these issues, the Water School Project constructed up new water dependent livelihoods like vegetable growing and the Banyara Gravity Flow Scheme. Designed and constructed by brick-making and local enterprises like the tea factories have been Ugandan engineers, the water scheme provides safe and clean able to produce more since sufficient water supply is no longer a water for almost 20,000 people in Kanungo District. The source challenge. The water scheme has also reduced the pressure on the is located in the mountains allowing gravity to create sufficient. Bwindi Impenetrable National Park because fewer people enter the pressure to transmit water through the 42.8 kilometre pipeline park to collect water.

agricultural production which has increased food security and stimulated local development. People living in the area have taken

"The Water School Project has really helped us; it has improved the life of pupils and teachers who never had water for drinking and cleaning available at schools before as well as the many community members who also have benefited from the Banyara Gravity Flow Scheme. Besides providing readily available water, the Water School Project has raised awareness of the importance of safe sanitation and good hygiene practices and many people have changed their behaviour because of that. Due to our restricted budget, the district cannot handle service provision alone so we are grateful for the many improvements in Kanungu district. The project has now been handed over to us and the water user committees and we will continue to monitor the water boiler facilities and the rainwater harvesting tanks at the Water Schools."

> Ambrose Byarahunga, Assistant District Water Officer, Kanungu District

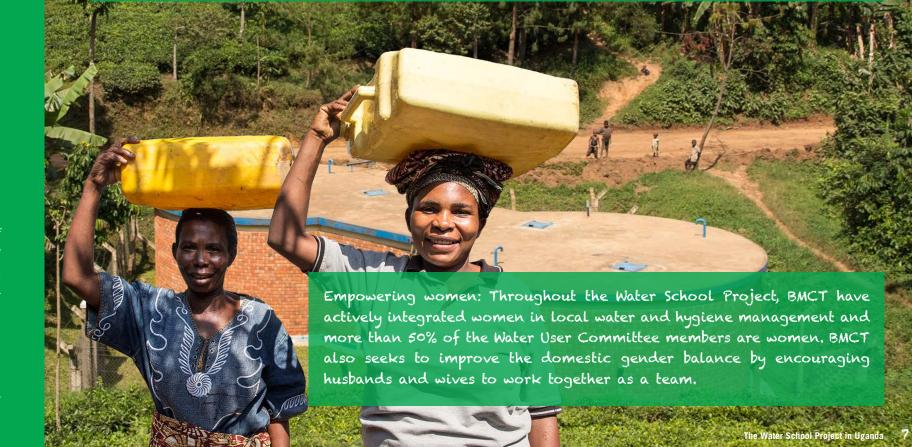
### Water User Committees (WUC)

guide the management.

on good water behaviour and we tell children not to play with they have to pay for the service." the tap or the water as it is a valuable resource. We are also responsible for collecting water user fees; each household

To ensure proper operation and maintenance of the new water pays Ush 1,200 (USD 0.5) per month. Four times a year, we sources, 410 water user committees have been trained in daily organise meetings for the water users to discuss the use of the scheme management, a scheme operator has been hired and collected money and to deliver a financial report for the past a sub-county water board has been formed to oversee and quarter. It is important for the community members to know that their money is put into good use and the financial reporting promotes transparency and accountability. We have lived so "The water user committee oversee the day-to-day operation many years in this area without water so even though some and maintenance of the water point. We sensitise the community families struggle to make the payment, they do understand that

Water User Committee member





# Clean drinking water

economic setbacks as they are forced to sell productive assets to serve it without contaminating it. such as livestock to pay their medical bills.

clean water for drinking. As a result, there has been a noticeable reduction of water bourne diseases in the area and many people I worried about how to pay them." report that they have taken up new livelihoods such as coffee and vegetable production because of the improved well-being and the time released from walking long distances to collect water.

"The Banyara Gravity Flow Scheme has changed our life. With an easy access to safe water, we can work in the garden until late and still have time to fetch water and cook. We have water in the dry season which means that we can grow vegetables for consumption and to sell at the market for a profit. But most importantly, we feel much better; cases of sickness have reduced considerably; our houses and our clothes are clean; and we bathe every day. A life without water is a life without dignity."

Every day, in rural areas like Kanungu, contaminated water "The water we used to drink had a foul smell and it felt sticky in the causes health annoyances and severe illnesses, like permanent mouth, It was bad, but we lived with it because we did not have any diarrhoea, dysentery, and typhoid. The high frequency of other alternatives. I was so happy when the new water scheme was discomfort and illness not only kills children and adults but it installed; the water is clear and it has no taste. My children who are also negatively impacts social and economic development. Local pupils at one of the water schools have taught me to always boil the education levels remain low when sick children miss school water before we drink it. In fact, they actually refuse to drink unboiled and economic opportunities are lost because people are either water after learning about the spread of water bourne diseases at too weak to take advantage of the chances or too busy taking school. Through community meetings, I have gained new knowledge care of ill relatives. Likewise, many families experience recurring on how to store the boiled water in clean lidded containers and how

Of course it is more work compared to before. But if you think about As a part of the Water School Project's effort to improve the health how much time I save by not walking a long distance to fetch water and wellbeing of children and adults in the targeted areas, large and not constantly going to the health centre with my children to get water boilers has been installed at XX schools and communities treatment for infections and diarrhoea, I actually have much more have been sensitised on the importance of preparing and storing time now compared to before. Also, I save a lot of money on medical bills which in the past could often leave me sleepless at night because



# Water, Sanitation and Hygiene

Clean water, access to sanitation facilities and good hygiene is vital for health, for social and economic development and for conservation of natural resources. Because healthy children improve communities' and schools' health and wellbeing. attend school more and get more out of it, the Water School Project has installed sanitation facilities and promoted good the root cause of faecal-oral transmission of disease. hygiene practices to attract and retain students and to improve the learning environment at all water schools.

Community-led Total Sanitation (CLTS)/School Led Total Open Defecation Free (ODF)." Sanitation (SLTS), which is a sustainable low-cost high-impact intervention targeting multiple sanitation behaviours at once through community/school level change.

"CLTS and SLTS are widely used approaches for the promotion of sanitation intended to eradicate open defecation and Open defecation poses an enormous threat to health and it is

Through CLTS and SLTS, pupils and community members map their schools' and villages' contamination routes, and they BMCT knows that merely providing water and constructing analyse their hygiene behaviours and plan how to block the latrine facilities do not result in improved sanitation and contamination. We have experienced very positive results using hygiene. Therefore, as a new approach BMCT has introduced this method and XX schools and villages are now declared

Programme Manager, BMCT

Clean hands is the first step to a better health. To improve daily hygiene practices, the Water School Project has encouraged installation of tippy-taps. A tippy-tap is a lowcost hand washing facility that can easily be constructed of available local materials. It works by lightly stepping on the stick that attached to the water dispenser to make the water pour out.

### Water, Sanitation and Hygiene (WASH) Clubs

Hygiene and sanitation remains a critical issue at most schools in "The school looks much better now compared to before; there are Uganda where many sanitation facilities basically are unfit for use. no trash lying around. Sanitation is a big issue around here. The Lack of doors and private spaces and ramshackle constructions in *latrines did not work; they were old and many of the doors were* danger of collapse are among the contributing factors for discomfort missing so we often had to queue in front of the few stances that and poor learning environments. Throughout the project, all water schools have carried out conservation, water and health educational programmes. By forming school Water, Sanitation and Hygiene there were no water supply at the school so we did not have water (WASH) Clubs, knowledge on sustainable water management and available for drinking, cooking and cleaning. Now, we have water improved sanitation and hygiene practices in school and at home is and bathing shelters. We have enough water to drink; we bathe spread from within the school by the members who raise awareness every day; we clean our teeth; cut our fingernails, and comb and among the other learners and their parents.

many families that never knew the importance of hygiene before." containers for storage."

have taught the rest of the household to boil water and improve racks, and latrines. People clean their houses and compounds, hygiene and sanitation. This has really been an eye opener for they boil the water before drinking it and they use clean closed Florence Kesiime, Brenda and Eunice.

trim our hair.

"The children really understand the messages; their parents inform We have all told our parents about the new practices. Most us how they have changed their behaviour at home and how they families around the school have tippy-taps, compost pits, drying

could still be used. The boys had to bathe with the girls. Also the teachers used only one stance and had limited privacy. Before,



# Creating awareness

been educated in creating awareness and promoting behaviour of the plays and further emphasise the messages. change within their communities through influencing their parents to adopt improved attitudes, behaviours and practices By raising awareness in schools and communities about the at household level.

Among the many initiatives to promote awareness such as significantly improve hygiene practices and to install sanitation community dialogue meetings, radio talk shows, still photograph facilities at home. A majority of the participating households projections, etc., pupils, teachers and local people have been have installed latrines, hand-washing facilities, bathing shelters, trained in writing and acting. Educative drama performances rubbish-bins, compost-pits, as well as water boiling and safe is a very effective way to disseminate information and cause awareness. Through drama, music, dance and poetry, pupils and have greatly improved in schools and households in the area. community members gain new knowledge and they are shown how to replicate the new practices at home. The plays cover To consolidate the results of the WASH Clubs and to further various topics such as conservation-friendly water practises, improve the pupils and students learning environments, and instalment of domestic hygiene and sanitation facilities to BMCT has installed solar power panels at suitable schools. improve health and personal hygiene. After the performances, The electricity is used for illumination of reading rooms and the pupils and the community members discuss the themes of dormitories. Nyamiyaga Secondary School has also received the play, and they use their new knowledge to identify and solve three computers, making computer lessons compulsory for all current issues. At schools, drama competitions have been held A-level students at the school. (needs to be updated!)

Wash Club members and learners from the Water Schools have to motivate and encourage the children to enhance the quality

relation between hygiene and health, the Water School Project has motivated pupils, teachers and community members to water storage. As a result, sanitation and hygiene standards



#### A model household

"I am proud of my home. I have made the improvements to upgrade our sanitation and hygiene standards. I wanted to have an ideal home so I have made the house nice to live in; it is tidy and well-aired, we have mosquito nets, an energy saving stove (see page 16), a pit-latrine, a bathing shelter, a drying rack, and a tippy-tap.

Because I have access to water, I have been able to smear the house inside and outside as well as the compound. I used to fetch water from a stream quite a distance from here. I was often stressed by the time consumption especially if I was working the garden until late, then I had to walk directly to the stream. Now, I have more time to grow my vegetables and perform domestic chores. From my two youngest boys who attend on of the water schools, I have learned to wash my hands after visiting the latrine and I have gained knowledge from community meetings and drama performances on how

to boil and store water for drinking. The change in our lives is almost unbelievable and I advise everybody to copy the improvements for better health, hygiene and saniation.

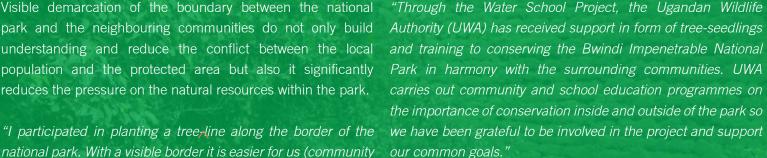
Peace. Model household competition winner



## Minimising the pressure on the natural resources

Visible demarcation of the boundary between the national park and the neighbouring communities do not only build understanding and reduce the conflict between the local population and the protected area but also it significantly reduces the pressure on the natural resources within the park.

national park. With a visible border it is easier for us (community our common goals." members) to recognise and respect the park boundary. I think it is a really good initiative to invite the local communities to participate in demarcating the border. The trees are planted by us on our land and we own them. So when they are mature we get the profit for the timber. It gives us a sense of ownership of and involvement in the national park."





#### Conservation

The way water is used and managed positively or negatively influence the state of natural resources and large ecosystems such as the Bwindi Impenetrable National Park. By creating awareness on the importance of conservation, by providing safe water, and by promoting good sanitation and hygiene practices among the park adjacent communities, the Water School Project has contributed to minimise the pressure on the parks resources.

"The Water School Project has changed a lot around here. Most importantly, people no longer fetch water from the forest and the communities have learned to appreciate and protect the water catchment area within the park. Our main problem is population pressure; due to water scarcity people had access to only a very limited number of water points of which not more than a few could provide safe water. Many children did not attend school because they has to walk long distances to fetch water or because they were sick from drinking unboiled water. Luckily, this has changed. The support we (UWA) have received from the Water School Project have enabled us to better protect the natural resources and to improve our relationship with the neighbouring

Raymond Kato Ecological Monitoring Warden, UWA

communities (see page 14)."

#### Building community resilience

Climate change severely affects rural families whose livelihood depends on land cultivation or on other natural resources. Extreme weather conditions, changed rainfall patterns and prolonged droughts make it difficult to predict the seasons, resulting in failed harvests and increased food insecurity.

To build community resilience to overcome the negative impacts of climate change, to increase the tree-cover, to promote conservation friendly livelihoods and to ensure that the Water Schools have permanent access to firewood for their water boiling facilities, the project has distributed more than 65,000 tree seedlings to local schools, churches, enterprises and private households.

> "The tree coverage increases gradually because more people are planting trees. In the past, there were big forests where people could fetch firewood and other resources. But now these are either gazetted as national parks or they have disappeared completely.

> > Under the Water School Project, I have received seedlings and training on seed production and marketing. As a result, my income has increased considerably. It feels great to make an income and protect the environment at the same time."

> > > Charles Kiiza Tree nursery owner





## The VSLA methodology

A Village Savings and Loan Association (VSLA) is a micro-experience pronounced economic and social progress leading credit scheme under which 25-30 members meet in a self- to an overall increased well-being and enhanced quality of managed group once a week to save and borrow money. Iife. The transformational impact of the VSLA methodology Members can take out loans to invest in income generating has made the initiative immensely popular. Particularly women activities such as commercialised farming, goat rearing and benefit from the VSLAs; they have proven to be good at financial small businesses, or they can use the loans to meet expenses management by investing wisely in income generating activities like school fees and medical bills. All members pay 10% and in household improvements resulting in an increasing local interest and have three months to repay the loans, resulting in economic growth and household welfare. VSLAs promote a a steady growing pool of money, which is shared among the saving culture among the members and offer a much needed members once a year. Through the group, VSLA members are alternative financial services since banks and micro-finance provided with security against unforeseen expenses and they institutions only are very few in remote and rural areas like are enabled to invest in the future. As a result, VSLA members Kanungu District.

# Sustainability

To sustain and strengthen the new safe water and hygiene practices in the communities surrounding the Water Schools, 100 community educators have been trained under the Water School Project. The community educators mobilise the communities in each of their assigned areas to develop and implement local action plans for water conservation, sanitation

Village Savings and Loan Associations (VSLAs) have been formed in all targeted communities under the Water School Project. Besides the many economic and social advantages of the VSLAs, the groups work as an entry point for the community educators to reach the community members. The members meet once a week, which means that they can easily be targeted with new information on conservation friendly safe water and hygiene practices and the

and hygiene promotion.

The VSLAs have also proven to support timely payment of the water user fees. By collecting the payment at the weekly meetings, families are can pay the monthly fee at 1.200 in four rates at Ush 300 per week which is a much more feasible for most people.

"The VSLA have changed the life for many people. By saving just small amounts every week and take out loans, we can invest in commercial ventures such as livestock rearing and retail shops but as importantly we can also cover our expenses without having to sell productive assets. I have been a member since the beginning of the project and I have taken out several loans to buy goats and piglets for rearing and selling.

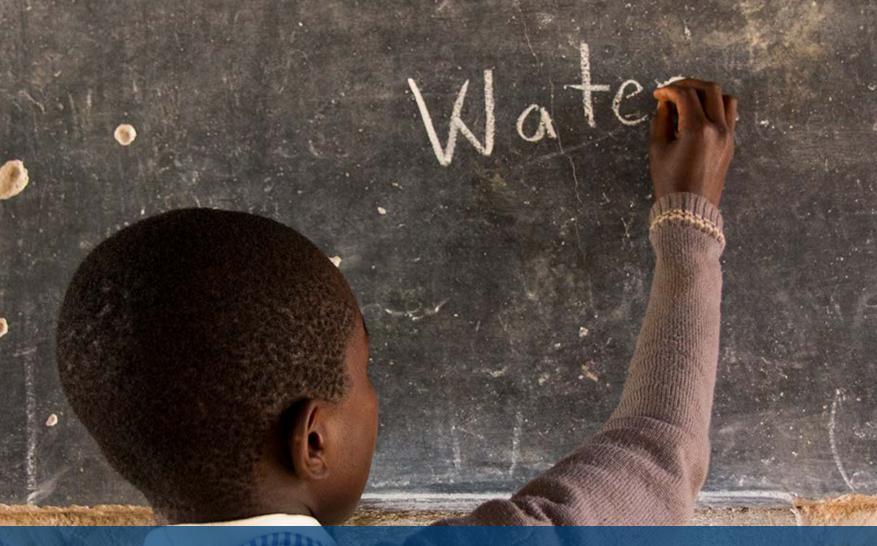
are poor and although most families understand that they have to pay for the service, it can be difficult for them to make the payment. In the past, we walked from door to door to collect the fee; it was unpleasant and tiresome to walk from house to house but after we connected the payment to the VSLA and divided the payment

It can be a challenge to mobilise the water user fee. People

the payment on time."

into four weekly portions most people make

Jackson. VSLA and Water User Committee member (not pictured)



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