

# FINAL REPORT

<b>Name of Organisation</b>	<b>East Africa Children's Project (EACP)</b>  <b>Household Hygiene Training programme (WASH) Northern Tanzania</b> <b>Administered by:</b> <b>Hope Revival Children Organization (HRCO)</b> <b>Musoma District, Mara, Tanzania</b>
<b>Date of Award &amp; Value</b>	<b>23 May 2018</b>  <b>£4,900</b>
<b>Today's Date</b>	<b>06-12-2019</b>

## EXECUTIVE SUMMARY

The project has been overseen by EACP and delivered by HRCO our long term partner in Northern Tanzania. We are very pleased to report that this water, sanitation and hygiene (WASH) project has been successfully delivered. In our view this project has exceeded expectations and has delivered an exceptional benefit to cost outcome.

In summary:

1. Three WASH committees at the district level have been established in the Mara region to promote and support hygienic water management systems in households and the dissemination of information
2. A 3-day training course on effective WASH practices within households was provided to 30 local community representatives
3. The 30 trained representatives have since been supporting the dissemination and application of WASH knowledge and understanding to around 600 households in their local communities, including young people and children
4. Oral testimonies have been obtained from households which affirm the beneficial effects of the WASH education and training programme
5. The HRCO WASH programme (combined with the use of bio-sand water filters - BSWFs) has been identified by both regional and national government in Tanzania as a high net value social project. As a result HRCO have been involved with replicating this WASH/BSWF model more widely both across 8 regions in Tanzania and also more widely within the Mara region itself. HRCO now has Tanzania Accreditation to provide WASH projects nationally
6. This locally based WASH programme based on peer-to-peer learning combined with the use of bio-sand water filters has been highlighted as a project of good practice. As a result HRCO was funded by NGOs in South Korea to attend and present at a conference at Yonsei University South Korea (THES World Ranked 251-300) on hygiene and water filtration in Feb 2019. HRCO have also been supporting research collaboration between Yonsei University and Tanzanian Universities.

As a result of our project, combined with the use of BSWFs and growing awareness of the local technology, around 200 bio-sand water filters are currently in operation in the area providing water to around 2,000 beneficiaries. Although not part of this project we understand that water filters are regularly and independently tested by regional water authorities and proven to be highly effective in producing potable water for household consumption. Hence the interest by regional and national government in this programme, and by international agencies including universities.

1.	<b>WHAT WERE THE KEY AIMS OR PURPOSES OF THE PROJECT? WHAT ACTIVITIES WERE UNDERTAKE TO ACHIEVE THESE AIMS?</b>							
	<p><b>KEY AIMS</b></p> <p>Key aims of this this project are:</p> <ol style="list-style-type: none"> <li>1. Developing knowledge and understanding of good water, sanitation, and hygiene (WASH) practice among poor rural communities in Northern Tanzania</li> </ol> <p>As a result it is anticipated that this investment in a WASH education programme will (i) increase the adoption and sustained use of improved hygiene practices (ii) increase the use of Bio-sand Water Filters (BSWFs) among households (iii) promote sustainable health improvements at a local community level among around 600 households,</p> <p>The project never proposed to measure or test for these wider outcomes in this project. However the link between WASH programmes and improved health outcomes, including among children, in low income countries is well documented in the medical scientific literature. Also simple oral testimony from beneficiaries of the project indicate significant self-reported health improvements.</p>	<p><b>ACTIVITIES UNDERTAKEN</b></p> <p>The following measured outcomes were achieve as part of the project</p> <ol style="list-style-type: none"> <li>1. Three WASH committees at the district level were established to promote and support hygienic water management systems in households and the dissemination of information</li> <li>2. A 3-day training course was provided on effective WASH practices within households to 30 local community representatives</li> <li>3. WASH knowledge and understanding was then disseminated by our 30 trained representatives to around 600 households in their local communities and via local networks more widely across the community.</li> </ol>						
2.	<p><b>WHAT WAS ACHIEVED IN DETAIL.</b></p> <p><b>Key Outcomes And Project Milestones:</b></p> <ol style="list-style-type: none"> <li>1. <b><i>Establishment of WASH committees at the district administrative level. Evidenced by committee details, memberships, main outcomes and decisions</i></b></li> </ol> <p>HRCO has successfully managed to establish BSWF WASH Committees in Musoma Urban and Rural in Mara region as well as Sumbawanga rural in Rukwa region. In each case a gender balanced committee had around ten members:</p> <table border="1"> <thead> <tr> <th>Region</th> <th>District</th> <th>Name of the Committee members</th> </tr> </thead> <tbody> <tr> <td>Mara</td> <td>Musoma Urban</td> <td> <ol style="list-style-type: none"> <li>1. Ayoub Laizer</li> <li>2. Elizabeth Nazari</li> <li>3. Jannepha Johanness</li> <li>4. Makongoro Magesa</li> <li>5. Plakseda Masatu</li> <li>6. Getruda Boniphace</li> <li>7. Juliana Zebedayo</li> <li>8. Julieth Rwechungura</li> <li>9. Emmanue Chacha</li> <li>10. Christ Maregesi</li> </ol> </td> </tr> </tbody> </table>		Region	District	Name of the Committee members	Mara	Musoma Urban	<ol style="list-style-type: none"> <li>1. Ayoub Laizer</li> <li>2. Elizabeth Nazari</li> <li>3. Jannepha Johanness</li> <li>4. Makongoro Magesa</li> <li>5. Plakseda Masatu</li> <li>6. Getruda Boniphace</li> <li>7. Juliana Zebedayo</li> <li>8. Julieth Rwechungura</li> <li>9. Emmanue Chacha</li> <li>10. Christ Maregesi</li> </ol>
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		Musoma Rural	<ol style="list-style-type: none"> <li>1. Moris Chai</li> <li>2. Andrea Migiro</li> <li>3. Chausiku Kanyige</li> <li>4. Matina Sanya</li> <li>5. Getruda Mlagala</li> <li>6. Pilly Kairiba</li> <li>7. Gaudensia Josephat</li> <li>8. Nyanyama Jela</li> <li>9. Mwajuma Pascal</li> <li>10. Roda Bwile</li> </ol>
	Rukwa	Sumbawanga	<ol style="list-style-type: none"> <li>1. Pascal B. Shauritanga</li> <li>2. Hassan Mwakipasile Amina Surubi</li> <li>3. Paulina Katumbi</li> <li>4. Reti Surubi</li> <li>5. Bransio Manita</li> <li>6. Scolla Kapaya</li> <li>7. Frola Kasanga</li> <li>8. Mariana Salira</li> <li>9. Magreth Kipaka</li> <li>10. Victoria Kaolo</li> </ol>

The main wider outcomes for the community are:

- A. increased educational awareness of WASH and how best to use BSWF technology for home domestic use. Low-income local communities increasingly understand the importance of using BSWF technology as a cheap effective means for obtaining water for domestic use by using water filtration to reduce diseases in the family
- B. strengthened local institutions which seek to reform and to improve capacity, accountability and responsiveness regarding local develop polices, and especially relating to the management of water and sanitation
- C. increased income of derived community groups who are involved in local production the water filters
- D. improved environmental sustainability through BSWF technology which has helped to reduce deforestation in the community via using wood fires to boil water and increase environment awareness of and action on, environmental issues related to water and sanitation.

**2. Recruiting, transporting and supporting 30 community representatives for the WASH and BSWF education training course. Evidenced by names and locations of course attendees**

LIST OF PARTICIPANTS ATTENDED IN WASH/BSF TRAINING COURSE AT STIGMA TREE TRAINING HALL FROM 09 – 12/JULY 2018

No.	Full name	Coming from	Signature
1.	Moris Chai	Musoma rural	M. Chai
2.	Andrea Migiro	Musoma rural	A. Migiro
3.	Chausiku Kanyige	Musoma rural	C. Kanyige
4.	Matina Sanya	Musoma rural	M. Sanya
5.	Getruda Mlagala	Musoma rural	G. Mlagala
6.	Pilly Kairiba	Musoma rural	P. Kairiba
7.	Gaudensia Josephat	Musoma rural	Gr. Josephat
8.	Mwajuma Pascal	Musoma rural	M. Pascal
9.	Roda Bwile	Musoma rural	R. Bwile
10.	Pascal B. Shauritanga	Musoma rural	P. Shauritanga
11.	Hassan Mwakipasile	Sumbawanga district	H. Mwakipasile
12.	Amina Surubi	Sumbawanga district	A. Surubi
13.	Paulina Katumbi	Sumbawanga district	P. Katumbi
14.	Reti Surubi	Sumbawanga district	R. Surubi
15.	Bransio Manita	Sumbawanga district	B. Manita
16.	Scolla Kapaya	Sumbawanga district	S. Kapaya
17.	Frola Kasanga	Sumbawanga district	F. Kasanga
18.	Mariana Salira	Sumbawanga district	M. Salira
19.	Magreth Kipaka	Sumbawanga district	M. Kipaka
20.	Victoria Kaolo	Sumbawanga district	V. Kaolo
21.	Aman Athuman	Musoma Urban	A. Athuman
22.	Jannepha Johanness	Musoma Urban	J. Johanness
23.	Elizabeth Nazari	Musoma Urban	E. Nazari
24.	Christ Maregesi	Musoma Urban	C. Maregesi
25.	Emmanue Chacha	Musoma Urban	E. Chacha
26.	Julieth Rwechungura	Musoma Urban	J. Rwechungura
27.	Juliana Zebedayo	Musoma Urban	J. Zebedayo
28.	Getruda Boniphace	Musoma Urban	G. Boniphace
29.	Plakseda Masatu	Musoma Urban	P. Masatu
30.	Makongoro Magesa	Musoma Urban	M. Magesa

**3. Delivery of a 3-day course by an appropriately qualified person in WASH and BSWF methods. Evidence of qualifications and course content**

The course was delivered by two qualified people from the Mwanza water quality testing and health department. It took three days to accomplish the training. The course delivery methods included participation, theory, and demonstration involving participants and course leaders.

The contents that were covered included:

- Water supply
- Sanitation
- Hand hygiene
- Hygiene promotion
- Healthcare waste management
- Environmental management and energy
- Cleaning and disinfection
- Health facility management
- BSWF use, maintenance, and cleanness
- Safe water storage and use
- Household visits, WASH check protocols.

**4. Achieve 100% course attendance rate by at least 75% of course participants**

- The attendances was achieved 100% during the three course by all the participants as was planned

**5. Achieve at least 66% course attendance rate by all course participants**

- The attendance of all participants was achieved and attended 100% and active involved and participated fully.

**6. WASH community representatives to support around 20 local households in WASH/BSWF education, training, and information. Evidenced by list of households and selective household visits by HRCO staff.**

This is the evidenced list of 20 households and selected household visits by HRCO staff.

No.	Name of the household with filters	No. of family members	District	Ward/village
1.	HRCO office	15	Musoma Municipal	Buhare ward
2.	Veronica Modest	7	Musoma Municipal	Makoko ward
3.	Maryciana	10	Musoma Rural	Nyakatende ward
4.	Isaac Masesa	5	Musoma Municipal	Bweri ward
5.	Jane Masinde (Mama Nyakwesi)	9	Musoma Municipal	Kiara ward
6.	CDR Fund office	20	Musoma Rural	Nyakatende ward
7.	Samwel Nyaholi	8	Butiama District	Nyankanga village
8.	Magesa Waswi	6	Butiama District	Nyankanga village
9.	Charity health centre (mji wa huruma) Filter no.2	67	Musoma Rural	Nyakatende ward
10.	Christina Marwa	11	Musoma Rural	Nyakatende ward
11.	Verdiana Joseph	13	Musoma Rural	Nyakatende ward
12.	Christina Machele	10	Musoma Rural	Kigera Etuma Village
13.	Mama Keraka	9	Butiama	Nyabange ward
14.	Rhobi Chacha	5	Musoma Municipal	Kamunyonge
15.	Tana Nyabange	8	Musoma Municipal	Mwigobero ward
16.	Nyansaungu	9	Musoma Rural	Kiriba ward
17.	Elizabeth Nyabange	10	Butiama	Makutano
18.	Angelina Manyama	5	Musoma Municipal	Buhare ward
19.	Juma Mabunya	8	Butiama	Makutano
20.	Manyama mafulu	6	Butiama	Makutano

**7. Obtain testimony from beneficiaries regarding the WASH programme.**

Below are testimonies from the households/families using WASH protocols combined with BSWF water technology:

“My name is Rhobi Chacha. I am a mother of eight children, all at school age. I have no income, and my children are not able to attend school. Three of my eight children suffer from severe malnutrition, and all my children have at some point suffered from waterborne diseases, in particular cholera and typhoid. After I was trained in the making of BioSand Filters and have a little income, my family’s health has improved dramatically. My kids are healthy and we have a little food on the table. I’m also planning on sending them back to school next year.”

“My name is Christina Marwa. I am the mother of four children, a daughter and three boys. I do not know the father of my daughter because I was raped when i was collecting water from the river 10km away from home in 2013. The BioSand project has helped me become psychologically stable, especially as I get to work with other women in a similar condition. In difficult living situations, I believed that the high frequency of recurrent cholera in my family was a curse. But since I have a BioSand Filter in my home, cholera, typhoid fever, and diarrhea no longer affects my family.”

“My name is Maryciana. I am 58 years old and a widow. Since I started drinking clean water, I feel healthier, stronger, and younger. Even my skin has become smoother because I wash my skin with clean water without microbes attacking my skin. Before, I had no energy or strength to do my daily chores my strength has returned and I now work normally. I think if you drink clean water you will not age quickly.”

"I am Ghati Mwita. We are a couple with HIV couple who, before the BioSand filter, were always expecting death at any moment. Today we live a normal life and are in good health. We are not afraid of opportunistic diseases any more. With the medication we have and clean drinking water, we live a better life. One month after the use of the Filter coupled with vigorous hygiene, we feel better and our strength is restored. We have named the Filter "Miracle Filter".

"My name is Mama Nyakwesi. I am a mother of six children. I wasn't able to get a BioSand Filter for my family. However, I was able to use the neighboring family's filter. We only use the Filter for drinking water, and I'm seeing big improvement in my family's health. I solicited the group of moms who build the Filters to make a Filter for me, for which I'm paying \$2 a week. I already paid \$30 and am almost done paying for the filter. The Filter has been a great investment because now my family is healthy, and we use clean water for all our household activities. not just drinking water. I was hospitalized several times for typhoid fever (at least eight times in a five-month interval). After I started drinking filtered water, I'm feeling great."

**3. WHAT HAS BEEN LEARNED? HOW WILL LEARNING BE DISSEMINATED?**

In our view the WASH project has been a great success. EACP are very happy and proud to have developed and managed this project with our partner HRCO, who delivered the project day-to-day.

Evidence for the success of this project includes the level of interest and support coming from Tanzanian regional and national authorities. We understand that the regional water authority based in Mwanza has been following the progress of the project, and also independently monitoring outcomes arising from combining WASH education with BSWF usage. As a result the current WASH project is being rolled-out and extended by both the Tanzanian government and regional authorities to more districts within Mara and other also other regions in Tanzania. The following 8 regions in Tanzania are embarking on similar WASH/BSWF projects with HRCO playing a lead role:

Mara, Simiyu, Mwanza, Rukwa, Kigoma, Mbeya, Arusha, and Singida.

EACP have copies of documentary evidence of buy-in from both regional and state authorities. The Tanzanian government has also been giving HRCO all the necessary support in terms of technical expertise and transport during the implementation of the projects where needed in every region. Also local and regional authorities have been monitoring the effectiveness of the delivery of the project, as well as collecting independent water samples for laboratory testing. The results are then shared with HRCO as partners.

The success of the WASH/BSWF project delivered by HRCO has also generated wider interest in the international development research community. Following their work Stephen Marwa, head of HRCO, was invited and funded to visit Yonsei University, Wonju Campus, South Korea to share his knowledge of WASH/BSWFs applied to rural African communities. Stephen also attended and presented at a research meeting and conference on water filtration methods, including larger scale community water source filtration projects. Stephen visited Yonsei University from February 13 to February 21 2019. This represented major exposure for this project and also for HRCO which is a small organisation with 4 permanent key leaders and 4 other key workers. Yonsei University is ranked 251-300 in the Times Higher Education World University Rankings 2018

Following the visit HRCO have been invited to collaborate with Korea International Cooperation Agency (KOICA) on introducing the WASH and water filter technology to the community as KOICA extends its projects across Tanzania.

After visiting South Korea HRCO (Stephen Marwa) was invited to give a presentation to Tanzanian MPs about WASH/BSWF technology. Stephen was also invited by the University of Dodoma, Tanzania to give a presentation on community WASH/BSWF programmes and to explore further collaboration with Yonsei University.

	<p>The above provides significant evidence that this project has been very successfully delivered, and that outcomes have been widely disseminated locally, regionally, nationally, and globally. In our view this project has exceeded all expectations and has delivered an exceptional benefit to cost outcome.</p>
4.	<p><b>IS THE PROJECT CONTINUING?</b> <i>If so, will it be in a similar form or have we incorporated any major changes?</i></p> <p>This project has delivered significant outcomes which have impacted locally, regionally, and nationally, and has also facilitated international cooperation between agencies involved with WASH and water filter technologies. As discussed in Section 3 above this WASH/BSWF project is being expanded across local Mara districts and 8 Tanzanian regions. A quite remarkable outcome given the project costs.</p> <p>As a result of our project, combined with the use of WASH/BSWFs and growing awareness of the local technology, around 200 bio-sand water filters are currently in operation in the Musoma area providing water to around 2,000 beneficiaries. Although not part of this project we understand that water filters are regularly and independently tested by regional water authorities and proven to be highly effective in producing potable water for household consumption. Hence the interest by regional and national government in this programme, and by international agencies including universities.</p> <p>It is anticipated that this investment in the WASH and BSWF education programme will also (i) increase the adoption and sustained use of improved hygiene practices (ii) increase the use of BSWFs among households and (iii) promote sustained health improvements at a local community level, including among children. The positive impacts of this project are expected to go well beyond the immediate beneficiaries. These will include those households who later adopt WASH and BSWF technology after hearing of improved outcomes via social networks etc. We do not test for these wider outcomes in this project.</p>

<b>Signature</b>	
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