FOR SAFE WATER

"Communities United Through Water"



Mission

ASDSW is a non-profit organization building the capacity of self-reliant partnerships to plan, implement and manage community-driven clean water and sanitation solutions through sustainable organizational strategies, WASH Education and appropriate technologies.

WASH

WASH = **WA**ter **S**anitation and **H**ygiene promotion







Sustainability from the Start

Community ownership of the **process** will lead to ownership of the project.

ASDSW works with communities and their local government partners to inventory their **situation** and **resources**, then create a WASH plan for **long term improvement**

This plan results in numerous strategies and these become projects based on needs and resources.



Household interviews Kabuntalan, Maguindanao



Community Mapping Kabuntalan Maguindanao

WASH Planning training for Sulu Municipalities in Zamboanga City



This process is facilitated by a community group from a General Assembly. During the process, knowledge on WASH, Technologies and how it affects us is transferred to the local group and then to the local community.



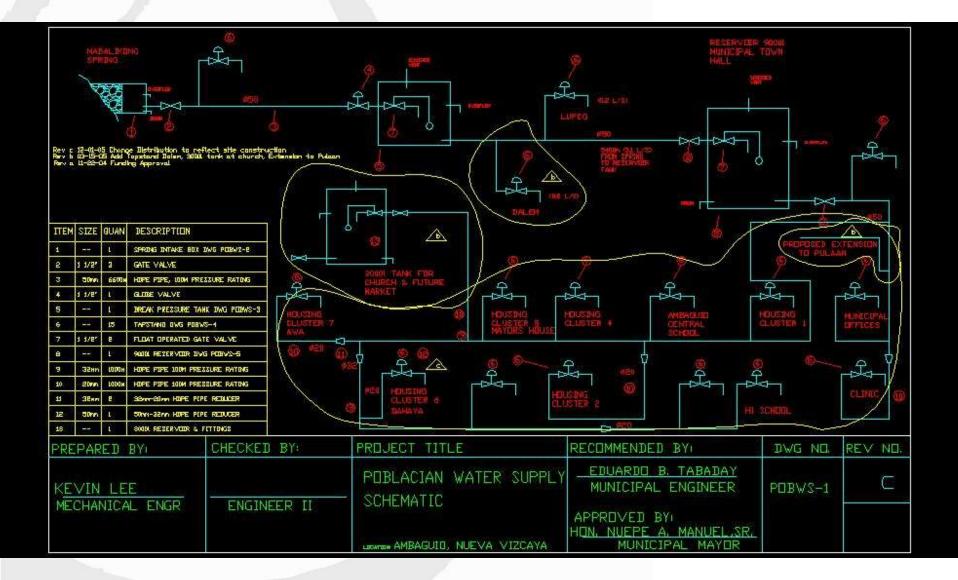
Water test Results Maguindanao ← Water Testing Sulu →

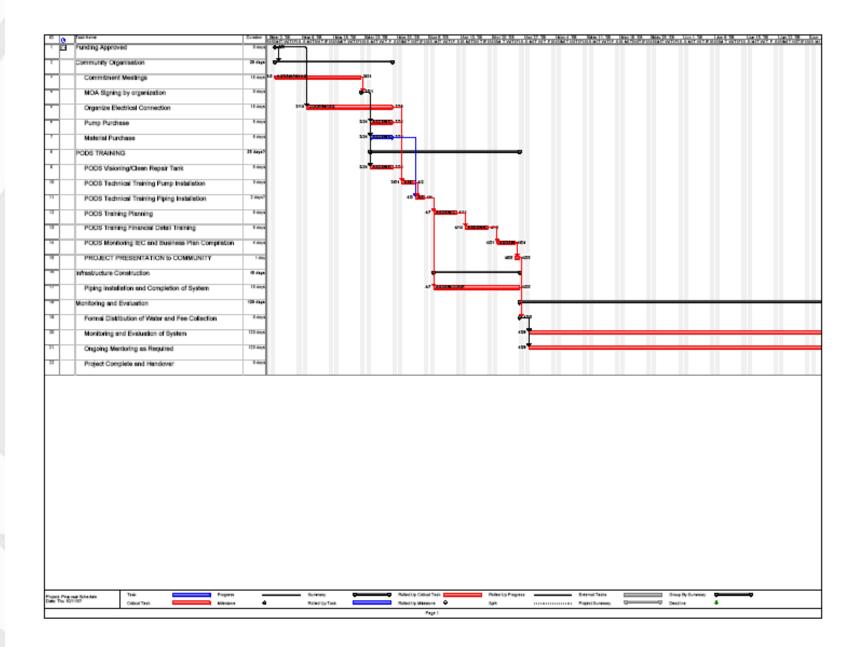




Project Design

As a continuation of the community ownership theme the strategies of the plan are developed into projects. This results in a project plan and proposal.





Acc No.	Descripton	Cost Estimate Section				Committed	Estimated	Estimated	Difference	Comments
		Quantity	Unit	Unit Price	Total	Cost	Left	total	From Budget	
1000	Intake Box Materials				20547			19789	-878	Orginal est 18525 (inflation)
1001	Cement		40kg sack	149	1788	2640	0	2640	852	canvass solano 2004
1002	Sand	40	cans	41	1640	1200	400	1600	-40	Original estimate
1003	Gravel	80	cans	41	3280	3000	0	3000	-280	Original estimate
1004	Boulder	3	cubc m	800	2400	0	2400	2400	0	Original estimate
1005	sahara	12	bag	22	264	600	0	600	336	canvass solano 2004
1006	Re-Bar-10mm	15	pcs	96	1440		1500	1500	-60	canvass solano 2004
1007	Tie Wire #16	2	kg	43	86	100	0	100	14	canvass solano 2004
1008	Lumber 1"x12"x10' (10 pcs)	100	bd ft	35	3500	1500	1500	3000	-500	canvass solano 2004
1009	Lumber 1"x12"x12' (10 pcs)	120	bd ft	35	4200	1000	2000	3000	-1200	canvass solano 2004
1010	Lumber 2"x2"x12' (15 pcs)	60	bd ft	25	1500		1500	1500	0	canvass solano 2004
1011	Nails etc. (4", 2 1/2")	3	kg	40	120		120	120	0	canvass solano 2004
1012	1 1/2" x 200mm Gi Nipple	3	pcs	90	270		270	270	0	canvass solano 2004
1013	1 1/2" Elbow	1	pcs	40	40		40	40	0	canvass solano 2004
1014	1 1/2" Plug	1	pcs	19	19		19	19	0	canvass solano 2004

Project Implementation

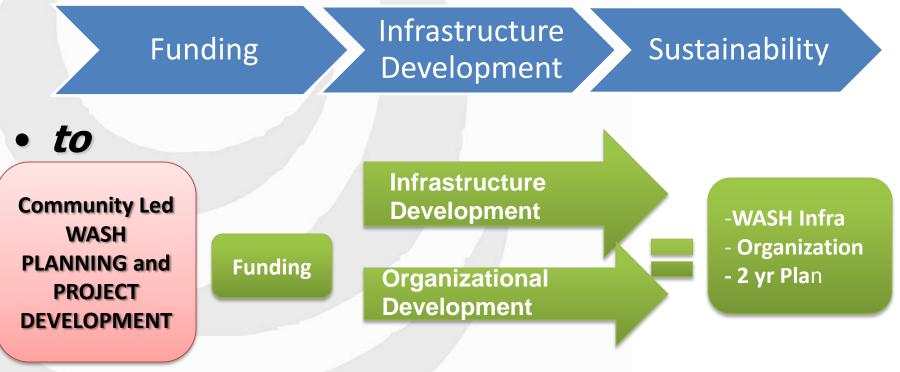
There are two components to this:

 Based on the initial group and the results of the planning/project design process; form or strengthen organization to implement, operate, maintain and administrate system. This program is called People Offering Deliverable Services (PODS) **2.** Infrastructure Installation. This is done by the community. They are trained to build install and maintain the infrastructure as it is built. This can range from level III (house to house distribution) to improving dug wells. The infrastructure implemented is based on the needs and resources

People Offering Deliverable Services — is

ASDSW's program that seek to transform supply driven development approach to demand driven.





11/22/2010

Technologies

- Water Supply
 - Community Distribution Systems
 - Spring Development
 - Deep Well electric pump
 - Water Source
 - Dug Well Improvement
 - Shallow and Deep Well Hand Pumps
 - Rain Water Harvesting
- Water Treatment
 - Bio-Sand Filter
 - Chlorination
 - Sedimentation/Chlorination plant
- Sanitation
 - Ventilated Improved Privy
 - Water Seal Latrine
 - Septic Tanks and Leach Fields
 - De-sludging (Mechanical and Biological)
- Drainage
 - Soak Pits
- Water Quality Monitoring
 - Portable Microbiology Laboratory (Biological contamination)

PODS Training











PODS Training for Bakungan Coastal Development Residents Association inc. Puerto Princesa City, June 2009 for Bio-Sand Filter Production



Bio-Sand Filters



Bio-sand Filter San Mateo, Rizal January 2009



Bio-sand Filter Caloocan January 2009







Bio-Sand Filter Traning Datu Abdul Sangki, Maguindanao August 2007







PODS with BSF and Water Quality Monitoring, Batarazza Palawan 2009 (Indigenous Peoples)



Rain-Water Harvesting



Bountiful Harvest, Puerto Princesa City March 2009 Ganassi, Lanao Del Sur Feb 2009 (Water and Sanitation Association/LGU



















Household Sanitation





Sanitation workshop in Sultan Kudurat, Maguindanao. February 2009 for MWTF's, WSA's in Maguindanao, Lanao Del Sur and Sulu. Pictured are Water Seal in dome Slab and Ventilated Improve Privy slab



Toilet Bowl Manufacturing





Water Seal Toilet flood Prone area ← VIP for Waterless Area →



Wells and Pumps





Improved Dug Well and Pump installation and repair Training Kabuntalan, Maguindanao Feb 2009



Hand Pump Repair ← Dug Well Improvement →





Jet Pump Installation ← Operating Jet Pump Level II Water System Iba, Zambales 2008 ←



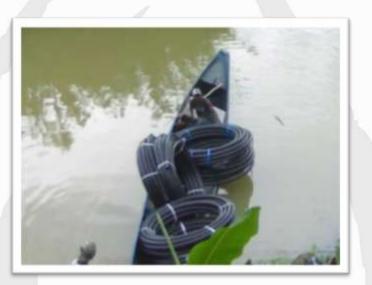
Level II and III Spring Dev



Barangay Iraya, Buhi, Camarines Sur Level III spring development Gravity fed, 47 tapstands, 2700 People Cons Nov 08 to March 09

















Barangay Siasio East and West, Sual Pangaisinan Level III spring development Gravity fed, 40 1900 People Cons Nov 08 to April 09















Level II and III Pump Systems



300' Deep Well and Pump Guimba, Nueva Ecija 2010













PODS Training for Water System. Includes Water Quality Monitoring.

Guimba Nueva Ecija, 2010

Engineering and Innovation



Engineering Training Cotabato City Feb 2009





Emergency Water Treatment Station, 50,000 liters per day Datu Piang, Maguindanao May 2009









Humanitarian Response



Mindanao Armed Conflict 2009/10



Luzon Typhoon Sep 2009 and Oct 2010



Luzon Volcano 2009





Introduced low cost simple Water testing for biological Contamination in Humanitarian Response situation .









Technical Advice, Construction Supervision And Capacity Development.

















Rapid Assessment and Action Planning.





Humanitarian Response Consortium

A Single Drop for Safe Water, Inc. Balay Rehabilitation Center Kadtuntaya Foundation, Inc. People's Disaster Risk Reduction Network Oxfam Rural Development Institute of Sultan Kudarat

The Humanitarian Response Consortium

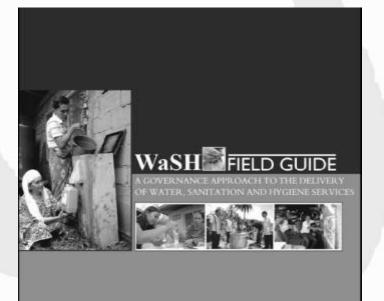
The HRC will strive to provide the highest quality humanitarian services to affected populations with the humanitarian response being:

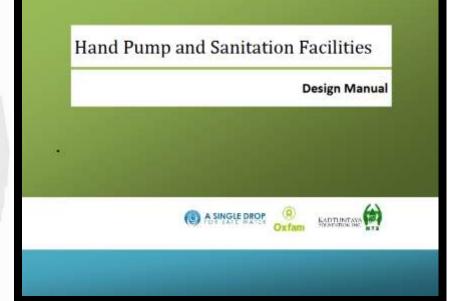
- **Rapid** and **timely**, with the HRC reducing time in mobilization and decisionmaking by pre-establishing a mode of implementation.
- **Appropriate** in terms of localizing international standards and accounting for cultural and environmental conditions.
- **Efficient** in providing quality assistance at reasonable costs and minimizing wastage.
- **Responsible** in reducing the long-term effects of response on local development efforts, ensuring that resilience is built and is protective of the environment.
- **Maximizing participation** of IDPs and affected populations, especially of women, in the humanitarian effort.
- **Coordinating with all actors**, such as government and non-government actors, as well as the affected communities, and taking on humanitarian advocacy as part of the humanitarian response.

The Humanitarian Response Consortium

- Composed of local NGOs with different specific skills and situated in geographical locations so as to provide comprehensive services to affected populations throughout the country.
 - ASD based in Cotabato City, Puerto Princesa WASH
 - Balay based in Manila, North Cotabato Psychosocial support
 - RDISK based in General Santos EFSL
 - KFI based in Cotabato City WASH
 - PDRRN based in Pampanga DRR
 - Oxfam based in Manila

Knowledge Product





http://www.lgspa.org.ph/kp/c_b.php ?KnowledgeProductID=56



Research Project

The Impact of Water PODS to Increase Resilience and Self-Reliance of Vulnerable Populations Through Community-Led Provision of Water, Sanitation and Hygiene (WASH) Services and Appropriate Technologies

Final Report

Submitted to: Science and Technology Innovations for the Base of the Pyramid in Southeast Asia (iBoP Asia)

By: A Single Drop for Safe Water (ASDSW) and University of the Philippines – Institute for Small-Scale Industries (UP ISSI)

iBoP Asia Project Number: e.g. 104904-001-5G-09-3-2 Country/Region: Philippines, Southeast Asia Reporting Period: December, 2009 – June, 2010 Date Submitted: June 7, 2010

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