WaSH: Integrated Social Empowerment (W:ISE)

The W:ISE Toolkit Handbook for Community WaSH and Wellbeing
# Table of Contents

**THE W:iSE TOOLKIT:**
A Mixed Methods Toolkit for Community WaSH and Wellbeing 5

**LIST OF ACRONYMS & ABBREVIATIONS** 7

**PART ONE**
Introduction 9

**PART TWO**
Methods and Tools for Assessing WaSH and Wellbeing 17

**PART THREE**
Planning a Community Intervention 25

**PART FOUR**
Conclusions 29

**PART FIVE**
Glossary 31

**PART SIX**
W:iSE Toolkit: Associated Publications 33

**APPENDIX PART 1**
How to Collect Data 35

**APPENDIX I:**
How to Conduct a Household Survey 36

**APPENDIX II:**
How to Conduct Focus Groups 38
Focus Group — Participant Characteristics 40

**APPENDIX III:**
How to Conduct Photo Voice 41

**APPENDIX IV:**
How to Conduct Key Informant Interviews 43

**APPENDIX V:**
How to Conduct Community Meetings 44

**APPENDIX VI:**
Participatory Community Mapping 46
APPENDIX PART 2
Tools

APPENDIX VII:
KAPE Questionnaire: Community Leader

APPENDIX VIII:
KAPE Questionnaire: Community Member

APPENDIX IX:
KAPE Focus Group

APPENDIX X:
KAPE Community Mapping

APPENDIX XI:
KAPE Community Meeting Report Back Script

APPENDIX XII:
Example Key Informant Interview Questions

APPENDIX PRAT 3
KAPE Questionnaire Variations

APPENDIX XIII:
KAPE Questionnaire Variations: Maternal and Newborn Health (Practitioners)

APPENDIX XIV:
KAPE Questionnaire Variations: Health Care (Patients)

APPENDIX XV:
KAPE Questionnaire Variations: Anaerobic Digestion (Community Leader)

APPENDIX XVI:
KAPE Questionnaire Variations: Anaerobic Digestion (Community Member)

APPENDIX XVII:
KAPE Questionnaire Variations: Post Disaster Transitioning (Community Leader)

APPENDIX XVIII:
KAPE Questionnaire Variations: Post Disaster Transitioning (Community Member)

APPENDIX XIX:
KAPE Questionnaire Variations: Ceramic Filter (Community Member)

APPENDIX XX:
KAPE Questionnaire Variations: Social Capital Questions
The world has made tremendous gains in improving access to sanitation and drinking water, especially with the advent of the Millennium Development Goals. The most recent statistics indicate that 68% of the world’s population have access to improved sanitation and 91% are using improved drinking water sources. This is important because clean drinking water is essential to public health and community wellbeing, with sanitation as the first line of defence in protecting water quality for drinking. Technologies can, and do, provide greater access to potable water and sanitation services, but community health and wellbeing can only be sustained if sanitary and hygienic practices accompany innovation. People’s interactions with water and the environment can determine the health of their entire community, which makes drinking water, sanitation, and hygiene (WaSH) crucial components of community development. Communities must have the knowledge, capacity, and desire to implement and practice sustainable WaSH in order to ensure public health and wellbeing.

For development projects to be sustainable they must be socially, culturally, politically, and financially compatible with, and supported by, the community in which they are being implemented. Projects must also educate and support communities to recognise and change unhealthy behavior through learning about linkages between water and health. The United Nations University Institute for Water, Environment, and Health (UNU-INWEH), in association with its partners, has developed a toolkit that applies a mixed methods approach to understanding community WaSH as a first step in evidence informed decision-making and building capacity for change. We believe that together, these can begin a sustainable transition towards improved health and wellbeing, changing conversations, changing mindsets, and changing lives.

The purpose of this handbook is to describe tools and methods that a community, NGO, or local government can use to understand the relationship that community members have with each other and with water and their environment; to understand how these relationships impact health; how and why water is used in the community; how sanitation and hygiene practices are viewed; and how changes could be made. The toolkit described in this handbook can be used to provide insight into community water and health challenges as a first step to identifying and prioritising ways to improve WaSH and wellbeing within a framework of community values, traditions, and culture.

The tools and methods described are participatory in nature; community members learn about healthy behaviours and practices while they assess their water, their environment, their social development, their health status, and the interactions among these factors. These tools will be easier to use if you read through this handbook carefully. You may need to learn more about the causes of water-based health problems, particularly within the local context. The toolkit is based in semi-structured interview, focus group, and household survey methods. If you are not familiar with these methods, you and your team may need further training. Key references describing these methods can be found in Appendices Part A (I-VI).


2 While community usually refers to a group of people living within a geographic area, the W:ISE Toolkit can be applied to a variety of communities, defined as a group of people with common characteristics or attitudes. Communities can vary in scale, from the community in a healthcare facility or school, to a region.
As you become more familiar with these methods, you will be able to modify the surveys provided to fit the local context and specific 
WaSH opportunities and challenges that you face. You will see that we have already modified and applied the basic toolkit to maternal 
and child health, post-disaster recovery transitioning, technology acceptance, and willingness to pay. A web knowledge portal for 
WaSH — HydroSanitas — is also under development. It can be used to find suitable solutions once the community context is well 
understood and articulated (see Section 2). Further, it provides other community experiences, which may be helpful in avoiding failures 
already dealt with by others in similar situations, and a space for collaboration and communication.

When engaging community members in any interview, focus group, or survey, it is important to be ethical and respectful and to ensure 
that participants are not being coerced into participating. The research projects that used the schedules provided in this handbook 
have been approved by research ethics boards at McMaster University, University of Waterloo, and Kenya Medical Research Institute.

It is our hope that you find this handbook to be both informative and motivating. For further information or feedback about these 
tools or methods do not hesitate to contact UNU-INWEH

3 contact.inweh@unu.edu OR www.inweh.unu.edu
# LIST OF ACRONYMS & ABBREVIATIONS

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DWSC</td>
<td>Drinking Water Supply Chain</td>
</tr>
<tr>
<td>GPS</td>
<td>Global Positioning System</td>
</tr>
<tr>
<td>IFAD</td>
<td>International Fund for Agricultural Development</td>
</tr>
<tr>
<td>KAP</td>
<td>Knowledge, Attitudes, Practices</td>
</tr>
<tr>
<td>WaSH</td>
<td>Water, Sanitation, and Hygiene</td>
</tr>
<tr>
<td>WHO</td>
<td>World Health Organisation</td>
</tr>
<tr>
<td>UNICEF</td>
<td>United Nations Children’s Fund</td>
</tr>
</tbody>
</table>
Part One

Photo Credit: Dr. Corinne Schuster-Wallace
Introduction

WHO COULD USE THIS HANDBOOK?

This handbook has been designed for general use so that many different people can employ it in a variety of settings. More specifically, it is aimed at NGO or government field staff and/or community leaders who are concerned with a community’s wellbeing in relation to water and health. This handbook provides a general overview of tools and methods in the W:ISE toolkit that facilitate the assessment of community knowledge, attitudes, and practices (KAP) around water and the environment with the intention of understanding community challenges, capacity, and readiness for empowered, sustainable change. The tools presented here have been very useful to our projects across many countries, including the Dominican Republic, Kenya, the Philippines, Sierra Leone, and Uganda. While we cannot be held accountable for any misuse or misunderstanding arising from the use of these tools, we hope that they will be as useful for you as they continue to be for us.

WHY THE W:ISE TOOLKIT?

For a project to be successful and sustainable, an understanding of community water-health knowledge, attitudes, and practices are fundamental to identifying the right solutions, whether technology, policy, or capacity and behaviour change. The knowledge, capacity, and desire to practice proper water handling, sanitation, and hygiene must be present for community members to realise WaSH benefits for improved individual and community wellbeing. The W:ISE toolkit is designed to help strengthen communities by identifying barriers that may slow or prevent the success of WaSH projects and build upon opportunities through empowerment and capacity building.

Things to remember:

» The toolkit presented here addresses broad political, social, economic, cultural, and environmental factors.
» You must adapt the toolkit to your specific location, context, and problem focus.
» These tools will provide you with information to assist in implementing customised WaSH projects.
» This manual does not replace basic training in research methods and techniques but rather builds on these foundational approaches for evidence-informed sustainable community WaSH policy and practice.
CONCEPTUALISING THE WASH AND WELLBEING APPROACH

The W:ISE toolkit has been designed to fill a challenge identified in current WaSH projects — that of sustainability. It has been estimated that only 2 out of 3 hand pumps are working at any one time\textsuperscript{4}, and despite many local sanitation successes, the MDG target will fall short. UNU-INWEH and its partners believe that uptake is the key to improving sustainability and scale up/out of proven solutions and, to this end, understanding community context, knowledge, perceptions, attitudes, and practices can improve project design and outcomes through the WaSH and wellbeing approach. This builds on what we see as the three essential pillars of sustainable behaviour change — engagement, empowerment, and enlightenment. The emphasis on wellbeing is critical to moving beyond simply a technical and/or medical focus on WaSH interventions. The W:ISE toolkit addresses the first two pillars by providing a platform to hear the different voices of a community and giving this knowledge and insight back to the community to engage and empower it in creating solutions. As demonstrated in the participatory development literature, because these solutions are generated through an internal-external partnership, they are more likely to be appropriate for the community, acceptable to the community, and therefore sustainable.\textsuperscript{5} The W:ISE toolkit facilitates the final pillar — enlightenment — which is the motivation to create change and the incentive for action. The W:ISE toolkit underpins the WaSH and Wellbeing\textsuperscript{6} approach to community development (Figure 1).

Interventions should facilitate the learning and capacity building of communities by educating members about water, sanitation, and health interactions so that they can develop a vision of wellbeing and work together to achieve it. The W:ISE toolkit has been developed in response to:

1. The need for an holistic approach to WaSH and Wellbeing that moves beyond the traditional biomedical model and which seeks to understand the complex linkages between people, water, the environment, and health;
2. The need to integrate information and knowledge across geographies, scales, sectors, and stakeholders; and,
3. The importance of social empowerment and social capital for sustainable development interventions.

---

\textsuperscript{4} RWSN Executive Steering Committee (2010) Myths of the Rural Water Supply Sector. RWSN Perspective No 4, RWSN, St Gallen, Switzerland.


\textsuperscript{6} WaSH and Wellbeing — changing evidence and evidence for change — is an approach borne out of trans-sectoral, transdisciplinary dialogue to re-imagine community development differently. \url{http://inweh.unu.edu/wash/}
FIGURE 1: WASH AND WELLBEING APPROACH TO COMMUNITY DEVELOPMENT
The W:ISE toolkit is predicated on the principles of readiness/willingness for change, strength-based solutions, stakeholder participation, equity, sustainability, and transdisciplinarity within an holistic socioeconomic, cultural, and ecological context. As such, we believe it is important to understand knowledge, attitudes, and practices in order to empower communities through co-creating research and knowledge and co-owning findings and solutions. Empowerment is not always incorporated into an intervention and this can contribute to the failure of the project over time. Empowerment can only occur if community members are involved in the creation of new knowledge and the development of a vision for their future. Interventions must include groups that are often excluded from decision-making. For example, experience has shown that women are commonly excluded in decision-making, yet they are often the most knowledgeable about WaSH interactions. Community unity and social capital are crucial components for long-term change that can be enhanced through individual and community empowerment. W:ISE tools and methods can identify and break down barriers to social capital and build up community cohesion and capacity.

Knowledge

WaSH projects should be designed around community member knowledge of water, the environment, and their health in order to ensure that they build appropriately on the strength of the community to resolve its WaSH problems. W:ISE tools and methods will help you assess existing knowledge of WaSH and the environment in a community. They provide opportunities for individuals to learn more about these issues, capture local (indigenous) knowledge, and internalise new knowledge for success. Existing knowledge of WaSH may be based on cultural factors and environmental conditions that are specific to a community’s location. It is important to build on existing knowledge by increasing social cohesion and learning opportunities. Helping a community to generate new knowledge and articulate their tacit knowledge and priorities can empower them to make informed decisions regarding WaSH practices.

“Greater attention needs to be paid both to enabling people to make and shape their own spaces for engagement and to processes to enhance the accountability of local and global institutions that affect people’s lives. With this, participation comes to mean more than taking up invitations extended by others.”


Attitudes

Attitudes can be shaped by practices, beliefs, values, norms, experiences, and geography. They are linked to knowledge (learned or experienced, factual or perceived), that has informed beliefs and norms. We can understand attitudes through assessing behavior. For example understanding why a person defecates in a specific area may provide insight about their attitudes toward sanitation and hygiene and the best approach to changing their knowledge and, ultimately, their behaviour. It can be challenging to assess attitudes as they often vary from person to person or social group to social group. The practices that a person develops may be a result of their attitude towards water and the environment. It can be difficult to change negative attitudes but one approach is through public outreach and education. Many development initiatives overlook the importance of outreach and education (the so-called software in a project) and may fail over time as a result. The tools and methods used in these forms of interventions allow you and your team to assess attitudes in your community and determine the community’s willingness and capacity to change.

Practices

Practices are the routine interactions that community members have with WaSH, the environment, and health. They can include activities such as how water is collected and stored, how hands are cleaned, and how faeces are disposed of. Practices, along with attitudes and knowledge, differ across communities. Practices are closely linked to attitudes and knowledge. Assessing the practices that take place in a community can be challenging because participants informing you about their practices may alter the description of a practice to what they think you want to hear or what they think would be socially acceptable. The tools and methods described in this handbook will allow you to assess different water, sanitation, and health interactions and incorporates questions designed to capture true practices in a community.

Social Capital and Social Empowerment

In addition to knowledge, attitudes, and practices, social networks and the capacity to make change have been linked to poverty alleviation and proactive health enhancing behaviour. While individual capacity and knowledge are important, they do not translate automatically into community engagement and action. Many researchers point to social empowerment and social capital as important drivers leading to sustainable change.

Social capital is generated by the relationships between people and their associated behaviours (norms) and values. It has been described, appropriately, as an “engine of action”. Community social empowerment builds upon individual strengths and competencies and can be described as “collective action to improve the quality of life in a community and to the connections among community organisations”. More specifically, empowerment changes existing power relationships and develops both “power within” and “power to”.

---


FIGURE 2: EMPOWERING CHANGE

CONTEXT (Antecedent Conditions)

EXTERNAL INTERVENTION

MUTUAL REINFORCEMENT

PROCESS
(Cohesion → Networks → Collective Action)

VALUES
(Trust, Norms)

RESOURCES
(Social Capital, Social Empowerment)

SUSTAINABLE SOLUTION

→ Environmental Capital → Economic Capital → Social Capital →

→ Environmental Capital → Economic Capital → Social Capital →
FROM THEORY TO PRACTICE

The W:iSE Toolkit has been developed to support UNU INWEH and its partners in realising “a world free of water problems”\textsuperscript{13} at the community scale. It is premised on three beliefs:

1. Individuals in communities possess untapped potential for improving health and wellbeing;
2. Sustainable solutions are only possible when there is a clear understanding of the local context, communities are engaged partners in identifying and implementing solutions, and solutions include environmental and economic benefits; and,
3. Communities have to be ready for change in order to be able to maximise benefits from interventions.

In a manner similar to Fawcett et al.\textsuperscript{14} who describe the process of empowerment in five stages (collaborative planning; community action; community change; community capacity and outcomes; adaptation, renewal, and institutionalisation), the W:iSE Toolkit is designed to support the empowerment process (Figures 1 and 2) through identification of community needs, capacity, and aspirations (collaborative planning and community action), intervention options (community capacity and outcomes), and iterative evaluation (adaptation and renewal). It is important for us to remember that both the process and the outcomes need to be empowering. While many of the research projects utilising these tools are ongoing, there are some practical demonstrations that the process is empowering, both for communities and for local partners. Specific outcomes to date include: i) establishment of an elected community water committee in a rural Kenyan community, supported by an external advisory group consisting of local government, public health, water utility, private sector, and NGO representatives; ii) understanding of why uptake of a household point of use treatment has not been greater in the Dominican Republic; iii) the importance of, and ability to measure, community resources, including social capital, for community leaders and local NGOs; and, iv) a realisation that, across many different countries, rural community members use visual indicators in order to assess that their water is of sufficient quality to drink.\textsuperscript{15} Not only have the tools been utilised across geographically and culturally diverse contexts and differing communities by different groups, they have been applied at different scales and used to answer different questions (Appendices Part B-Tools; Appendices Part C-KAPE questionnaire variations).

USING THIS HANDBOOK

Section One describes and explains the tools and methods in the W:iSE toolkit, which you can use to understand community knowledge, attitudes, practices, state of resources (community, environment, and WaSH), and capacity for change. Not all tools and methods may be necessary or useful in your community. Once you have developed a full understanding of the suite of tools provided, you will be able to determine which tool(s) work best for your intervention. The suite of methods and tools can be found in Appendices Part A-How to collect data; Appendices Part B-Tools; Appendices Part C-KAPE questionnaire variations.

Section Two explains how to bring together the information from these different tools and provides a road map for action once you have used the relevant tools from the W:iSE toolkit. This is not a step-by-step instruction manual but rather a guide that will allow you as a community leader, NGO, government officer, or policy maker to work with a variety of different communities. You may use this chapter as a guide to develop your own intervention.


\textsuperscript{15} See Associated Publications section for more information.
Part Two

Photo Credit: Dr. Corinne Schuster-Wallace
Methods and Tools for Assessing WaSH and Wellbeing

This section provides a short overview of each tool and method available within the W:ISE toolkit that can be used in a community WaSH project (Box 2).

Methods are particular ways to gather data as the foundation of information. The W:ISE toolkit is based on social science mixed methods, participatory approaches, and triangulation of information. The latter is accomplished through the melding of findings from the different methods as well as ground truthing information acquired in order to validate or dispute results. The collection of data required to inform the WaSH and Wellbeing process requires the participation and education of community members as well as incorporation of knowledge from other key stakeholders. The methods and tools used for engaging participants are summarised in Table 1. Please be sure to refer to Appendices Parts A - C for more detailed explanations of the W:ISE toolkit assessment methods and additional resources.

Tools are devices that can be used by you or a group facilitator to help gather data about community knowledge, attitudes, and practices, water resources, and capacity. This handbook specifically refers to the W:ISE toolkit developed by UNU-INWEH and its partners. The tools described can be used individually, in conjunction with other W:ISE tools, or in conjunction with other tools that you may already use in WaSH project development. It should be noted that none of the tools presented in this section deal with project implementation (design, costing, training etc.).

BOX 2: W:ISE TOOLKIT METHODS AND TOOLS

<table>
<thead>
<tr>
<th>Methods</th>
<th>Tools</th>
</tr>
</thead>
<tbody>
<tr>
<td>» Household surveys</td>
<td>» KAPE assessment</td>
</tr>
<tr>
<td>» Key informant interviews</td>
<td>» Community-SWAT</td>
</tr>
<tr>
<td>» Focus groups</td>
<td>» HydroSanitas</td>
</tr>
<tr>
<td>» Photo voice</td>
<td>» lessons learned</td>
</tr>
<tr>
<td>» Community meetings</td>
<td>» WADI mapping</td>
</tr>
<tr>
<td>» Community mapping</td>
<td></td>
</tr>
<tr>
<td>» Ground truthing</td>
<td></td>
</tr>
</tbody>
</table>
### TABLE 1: W:ISE TOOLKIT METHODS AND TOOLS

<table>
<thead>
<tr>
<th>PURPOSE</th>
<th>STAKEHOLDER</th>
<th>W:ISE TOOL</th>
<th>METHODS</th>
</tr>
</thead>
<tbody>
<tr>
<td>To understand baseline WaSH status, community KAP (water, environment, and health; WaSH), cohesion, priorities and willingness to change</td>
<td>COMMUNITY MEMBER</td>
<td>KAPE ASSESSMENT</td>
<td>HOUSEHOLD SURVEY&lt;br&gt;PHOTO VOICE&lt;br&gt;COMMUNITY MAPPING&lt;br&gt;FOCUS GROUPS</td>
</tr>
<tr>
<td></td>
<td>COMMUNITY LEADER</td>
<td>KAPE ASSESSMENT&lt;br&gt;SWAT</td>
<td>KEY INFORMANT INTERVIEW&lt;br&gt;FOCUS GROUPS&lt;br&gt;COMMUNITY MAPPING&lt;br&gt;COMMUNITY WATER ASSESSMENT</td>
</tr>
<tr>
<td></td>
<td>OTHER EXPERTS</td>
<td>KAPE ASSESSMENT&lt;br&gt;SWAT</td>
<td>KEY INFORMANT INTERVIEW&lt;br&gt;COMMUNITY WATER ASSESSMENT&lt;br&gt;(Facilitate with community leaders)</td>
</tr>
<tr>
<td>To identify vulnerabilities and strengths around water resources, wastewater, health, and environment and assess available community resources</td>
<td>FACILITATOR&lt;br&gt;(Within or working with community)</td>
<td>HydroSanitas SWAT</td>
<td>COMMUNITY WATER ASSESSMENT</td>
</tr>
<tr>
<td>To ground truth community knowledge with quantitative data and site visits</td>
<td>ALL</td>
<td>SWAT TOOLKIT RESULTS&lt;br&gt;COMMUNITY REPORT BACK</td>
<td>GPS AND COMMUNITY WALKABOUT&lt;br&gt;WATER QUALITY TESTING&lt;br&gt;COMMUNITY MEETING</td>
</tr>
</tbody>
</table>
**W:ISE TOOLKIT: METHODS**

The various tools that make up the W:ISE toolkit use a combination of methods to collect information. Community members should be partners in generating the focus of the research, owning the problems, and determining the solutions. They must engage in the process of gathering information around water, sanitation, and health in order to determine their needs and vision for the future. Tools such as *photo voice* and *participatory community mapping* allow a deeper understanding of the experiences of individuals and identification of common patterns across the community. They also enable community members to learn more about themselves and their relationships with water, sanitation, and health for improved WaSH and wellbeing.

**Household Surveys**

These surveys are used to capture KAP and opinions on topics. They are usually administered to the head of the household and can include a sanitary risk inspection of the home, although in some studies it might be decided to administer only to female heads within households. By using qualitative and quantitative questions in an interview style, richer data can be acquired. This also allows the surveyor to observe the household facilities and determine if the answers are accurate in relation to water and wellbeing practices. While the length of the survey will vary depending on your topics, it is recommended that administration of a survey should not exceed 30-45 minutes. It can be easier to pair surveyors into a survey team, one questioner and one observer.

**Focus Groups**

This method asks a group of participants about interests, perspectives, beliefs, attitudes, and practices in relation to a situation or concept, allowing for community member interactions and social organisation to be observed and better understood. The selection of the small group of participants is essential and should include key stakeholders. It is suggested that participants in focus groups be divided based on social characteristics, such as age and gender, depending on the questions being asked or problems being explored. This is to increase their comfort level and thereby conversation flow. Group discussions allow individuals to remember stories and experiences they may have forgotten on their own. Being in a group also provides many with a sense of comfort and solidarity, which may encourage them to share more experiences. It further provides an opportunity to obtain different explanations of the same event, giving a more textured representation of the community.

**Photo Voice**

This method requires participants to take photos of their experiences with their health and the environment, putting together a unique snapshot of individuals’ interactions and understanding of WaSH and Wellbeing. This technique empowers and engages participants in the relationship between water, the environment, and health as well as creating a partnership between your team and the community. It is useful to ask people who have participated in other activities and ensure proper training for their participation and use of the equipment (disposable camera) prior to the activity beginning. On average 1-2 weeks for this activity is sufficient and should end with a discussion of select significant photos.

**Key Informant Interviews**

A diverse range of participants will enhance the breadth of data collected, including community leaders and community members of various demographics. Your interview should begin generally and move into more open ended in-depth questions to create dialogue and comfort. These interviews should occur at a comfortable location for the participant, potentially their home if they agree and it is more convenient for them. Interview length will vary depending on the topics, but will usually last for 1 – 2 hours.

---

Community Meetings

These events should be held at a convenient time for the community. Prior to the event, engage with community leaders to discuss what will occur and encourage leaders to spread the word around the community. It is important to have your team prepared to facilitate this event and ensure that they are fully aware of all project details. These meetings allow individuals who may not want to participate in other aspects of the data collection to share their opinions. It is important to have an individual recording the meeting proceedings to later review information that arose. Lastly, this event is usually held prior to the beginning of a campaign or after data collection has occurred in order to report back findings.

Participatory Community Mapping

This method allows community members, as a group, to highlight important areas, such as latrines or water sources on a printed or hand-drawn map. It allows them to present their socially or culturally distinct understanding of these areas. It is important to focus this project on areas where they interact with water or conduct sanitation practices, which gives you a better assessment of community, environment, and social patterns that exist.

GPS Georeferencing and Community Walkabouts

These provide additional data, and an opportunity to triangulate and validate results. Plotting important community locations and WaSH facilities on a map provides a visual resource that can be linked to water quality and other data. You can do this through a community walkabout in which members of the community guide you around and indicate locations, which are captured and coded using a handheld GPS device.

Water Quality Testing

Completing simple tests can tell you if there are waterborne diseases, like Escheria coli (E. coli) or Salmonella, present in the community's drinking water. Some water quality testing kits that have been used by partners include: Coliscan Easygel®, which has an online manual for using the product with step-by-step instructions for testing water for disease and fecal matter, Colilert®, The Enterolert® Test, and PathoScreen® products.

Following the completion of these tests, you should compare the results to relevant regulatory standards, for instance the World Health Organisation’s Guidelines for Drinking Water Quality.17

W:ISE TOOLKIT: TOOLS

KAPE Assessment

The KAPE (Knowledge, Attitudes and Practices for Empowerment) Assessment is a series of interview schedules to gather information that is used to assess and understand community perceptions and current knowledge of water, sanitation, and health and linkages between them, different types of interactions people have with water and the environment, WaSH practices and preferences among community members (behaviour), insights to aspirations and constraints around WaSH and Wellbeing and overall readiness for change towards a WaSH intervention. These interview schedules are designed for different stakeholders, including community members, community leaders, and experts. The schedules employ different methods in order build up as complete a picture as possible with minimal resources. Data are collected on a broad range of subjects including household demographics, water and sanitation resources and needs, and community challenges and opportunities. These subjects can, and have been, augmented for different purposes to

---

include willingness to pay, attitudes towards specific solutions, KAP of different populations (e.g. new mothers), and aspirations for post-disaster transitioning.

The tool requires direct interaction with community members and other stakeholders. When administered across a community, this multi-method tool can collect a variety of water experiences. It invites the participation of community members who are most familiar with WaSH and Wellbeing issues and who would benefit most from safe water practices, such as women, who are typically responsible for water collection and caretaking in developing countries.

**HydroSanitas Community SWAT (Self-Water Assessment Tool)**

HydroSanitas:SWAT is an Internet-based tool within HydroSanitas that allows you to evaluate the status of social, physical, and infrastructure water-related resources in a community. It assesses eight themes of water security based on information provided in response to a series of questions. It produces a holistic evaluation of water security in the community that incorporates information about water source points and community characteristics. HydroSanitas:SWAT is a participatory evaluative tool which is designed to lead to improved knowledge of water and health relationships. Using the collective local knowledge of water issues in a community (both internal and external) will help to establish a baseline for the barriers and facilitators of a WaSH intervention. The tool consists of several modules, including an overall community assessment, threats to water quality and quantity, community knowledge and capacity, and water and sanitation infrastructure. This assessment tool was designed to use indigenous (local) knowledge in the absence of recorded data. Some of these data can be collected through the KAPE Assessment if they are not currently available. Once registered with a login and password, the tool can be accessed online18.

**HydroSanitas Lessons Learned**

This tool captures experiences of different communities as part of the HydroSanitas online knowledge portal. These experiences are designed to act as a resource for other communities as well as a mechanism for tracking various interventions within individual communities or programmes. It captures not only the intervention, but the socio-cultural context within which it occurred and useful information on challenges overcome, financing, and cost. Community or project leaders can fill in a form and submit it to the portal.19

**WADI — Water Associated Disease Index**

While not a community based tool, the WADI is a tool that can be used to identify areas with higher vulnerability to specific water-associated diseases for prioritisation and resource allocation purposes20. The tool can be applied to a specific disease, time period, and / or geographic area, although technical geographic information system (GIS) skills are required to develop the map outputs. WADI is designed to make use of openly available software so that it can be applied in low resource settings. It can be applied to different diseases, but is only currently available as WADI: Dengue21, and WADI: Schistosomiasis and WADI: Leishmaniasis, which are forthcoming under the Regional Initiative for the Assessment of Climate Change Impacts on Water Resources and Socio-Economic Vulnerability in the Arab Region (RICCAR) project22.

---

18 [http://projects.inweh.unu.edu/swat](http://projects.inweh.unu.edu/swat)
19 [http://projects.inweh.unu.edu/hydrosanitas](http://projects.inweh.unu.edu/hydrosanitas)
W:ISE TOOLKIT: IMPLEMENTATION

Understanding Community Knowledge, Attitudes, and Practices

If the tools are being applied by someone from outside the community, the first stage of the W:ISE toolkit implementation is to engage the community and its members in the process and ensure that this is something that will help them. This is a very complex process, often requiring people from a variety of disciplines, and our intent is to guide, rather than prescribe. Moreover, if community engagement fails, it is important to rethink the readiness of the community for change (Figure 1).

It is important to begin by meeting community leaders, who are an essential part of any successful WaSH initiative. They can assist in building a strong relationship between you and community members and can introduce you to groups of stakeholders who may be willing to participate. It is important to spend time getting to know members and groups of the community. Often, budgets and time constraints do not make this easy, but research indicates that developing a rapport with the community is crucial to fully understanding WaSH and Wellbeing needs and opportunities with the framework of existing physical, social, and economic resources. The goal of the W:ISE toolkit, whether implemented by people within or outside the community, is to support the community in understanding, owning, and managing WaSH-related problems and solutions through access to relevant information.

KAPE Assessment

Designing your KAPE Assessment: work with your team to decide: 1) the problem(s) you would like to understand; 2) the questions you would like to answer; 3) the nature and scope of data you want to collect; 4) which methods you will utilise to achieve this; and, 5) who your target group(s) are. The core KAPE Assessment questions should always be included in your assessment, as these provide important context for your findings. Other types of information you may wish to obtain include willingness to pay, water handling and hygiene practices, aspirations for community WaSH etc. When thinking about whom to request to participate in the assessment, women, the primary water collectors in many developing countries, tend to have the most direct experience with WaSH activities. However, it is important to obtain a broad selection of opinions. This is where the combination of methods becomes useful. For example, women may be the target participant for household surveys, but male perspectives are solicited through focus groups. Once the questions have been determined they should be translated into the local language(s).

Obtaining Ethics to Administer the Assessment: If you are conducting research in a community you may be required to obtain ethics through a community ethics protocol, or university/organisation ethics board prior to administering the assessment.

Preparing to Administer the Assessment: The best way to collect the assessment data is by using pairs of interviewers — one interviewer to ask questions and the other to capture the data and observe the surroundings and the process. Alternatively, one person can take a voice recorder to capture all that is said. Each interviewer should understand WaSH and water-environment-health linkages and be trained on how to conduct an interview. It is important to practice the interview on people, in order to be able to understand the ethics of asking for consent and confidentiality and to troubleshoot potential issues, such as misunderstanding questions. Under certain circumstances, community members can be helpful as interviewers when collecting information and this participation will build their skills and knowledge of WaSH. Once the interviewers are prepared, participants have to be recruited according to a pre-defined sampling strategy. Community leaders can be very useful in introducing interviewers to the community. Local NGOs can also provide this support. While household surveys tend to have a random element to the selection criteria, key informants (leaders and experts) tend to be identified through recommendations from others (snowball sampling).

Undertaking the Assessment: Data can be collected on paper copies of the survey (one for each respondent), or on a digital tablet using the QuestionPro© KAPE Assessment. Voice recordings can be a useful aid, particularly for responses to qualitative questions, as you can go back to the interview to fact-check.

http://www.questionpro.com/
HydroSanitas SWAT

The tool leads the user through different sets of related questions. It may be useful to ensure access to any community records, reports, and other documents before starting the assessment. First a community profile is established. Complete each section as fully as possible, although it is possible to go back and change responses or fill in gaps at a later date. HydroSanitas:SWAT was designed so that only answered questions are used to calculate the summary. However, the more accurate and complete the information, the more reliable the results. Most questions provide multiple choice options, where the choice that best describes the situation in the community is chosen. Once the answers have been filled in, the results can be accessed. They are provided as simple graphs and charts to help understand what the information is describing. The results will tell you how secure water is in your community and this information can tell community members about what is needed to maintain public health. If a score is in the red area of the graph, it means that this particular area needs improvement in the community. Values in the green area are less problematic, although this should not be interpreted as there being nothing more to be done.

Analysis and Dissemination

The final stage in implementing the W:ISE toolkit is to analyse, reflect on, and share the collected information. Many analytical methods and tools exist. Quantitative data can be assessed in a spreadsheet programme, such as Excel® or using qualitative software tools such as NVivo®. Findings from different tools should be triangulated and used to transform data into information to answer the specific questions posed at the outset.

An important stage in implementing the W:ISE toolkit involves discussing the findings with community members, for example, during community meetings. This method allows for members of the community, who were not able to partake in focus groups and interviews, to contribute their views or insights and to authenticate the qualitative reports. It further allows community members to own the information and to use it to discuss what they envision for their future health and wellbeing, for example, creating community committees to manage water projects. Additional dissemination opportunities could include donors, NGOs, businesses, etc. who are looking to invest resources in the community. The results can also be used in funding applications or project proposals.
Part Three

Photo Credit: Dr. Corinne Schuster-Wallace
The application of tools in the W:ISE toolkit provide the evidence for informed decision-making at the local level. The toolkit itself is simply a mechanism to ensure sufficient collective knowledge so that a community can own the discussion and decisions made around WaSH provisioning. This does not mean that a community must stand alone in planning and implementing the intervention; rather they are a partner in the process and must be able to draw upon external expertise and support. Remember that every WaSH intervention is unique as it must account for local conditions. This is why it is so important to understand not only the physical context for WaSH in a community, but also the socio-cultural-economic conditions as well.

The information collected through the W:ISE toolkit, once analysed, presented, and discussed, forms a big picture overview of the challenges, opportunities, and resources surrounding WaSH in that community. Knowing this information and knowing that it is extracted from local knowledge provides an opportunity to talk about WaSH and wellbeing in the community and to develop a unified vision and plan for change.

There are several elements articulated below, education and outreach, community vision to address WaSH needs, and narrowing the choices, which may be included within the vision in order to achieve the goal articulated by the community.

**EDUCATION AND OUTREACH**

Understanding why people think the way they do about linkages between water, sanitation, environment, and health, provides insight into the knowledge gaps which may exist. Education campaigns should support and reinforce existing WaSH knowledge and best practices. Additionally, the toolkit will provide information on community context, which is essential for deciding on the right messaging and delivery mechanism(s). Education campaigns may involve incorporating proper hand washing techniques and bathroom etiquette into school curriculum, or on the walls of school toilets, or posting educational information and pictures around the community. In order to reinforce learning and subsequent behaviour change, learning about proper WaSH practices and the relationship between water, sanitation, environment, and health should be built into each stage of an intervention.

**COMMUNITY VISION TO ADDRESS WaSH NEEDS**

One of the key objectives of the W:ISE approach is to create a sense of unity and engagement among community members so that the entire community is committed to self-articulated WaSH goals. This can occur through different activities, such as a community
meeting or other stakeholder consultation mechanisms. It is important that every voice has an opportunity to be heard. To be successful and sustainable, community leaders can only move forward on a vision about which everyone is in agreement. Readiness for change is an important component in taking any vision from paper to practice. If the results of applying the W:ISE toolkit indicate that the community is not yet ready to engage in change, it is unlikely that any intervention will be successful in the long term, or deliver the anticipated results. If a community is not yet ready to invest in change, this simply means that other activities and interventions are required before a specific WaSH intervention. These may include general capacity building of the leadership (e.g. financial, managerial), trust-building between different community groups, and/or strengthening linkages with external partners.

NARROWING THE CHOICES

An important factor for ensuring long term sustainability of a WaSH intervention is ensuring that the right solution is applied in the right physical, social, cultural, and economic context. **HydroSanitas** is a “one-start” knowledge portal for assisting in narrowing down the potential solutions available to maximise the likelihood of success. Drawing upon technical descriptions, supporting resources, experiences in other communities and a community of practice, **HydroSanitas** provides access to information about WaSH solutions that are most appropriate for the specific community context, as described through the findings from applying the W:ISE toolkit. Community members can use this portal to search for intervention techniques that match their vision. They can also research financial opportunities through the experience of others captured in the lessons learned in this tool. It is at this point that external expertise may be required to aid the community in the final decision-making and to tailor a specific plan of action for the community. An example can be found in the box below (Box 3).

**BOX 3. HYDROSANITAS**

An online knowledge database and decision supporting tool, the portal can be accessed by computers (or mobile phone, in the future) that are connected to the Internet. This database acts as a global platform where parties involved in developing solutions to water problems can interact and share ideas. It allows community members to access simple, technical information that is specific to socioeconomic, political, and cultural contexts.

In this portal, information and stories can be exchanged that can support the understanding of relationships between water, sanitation, the environment, and health, and share sustainable and empowering solutions for communities. More importantly, it provides experiences of challenges faced, so that everyone can learn from each other’s mistakes. This database allows you to work with other stakeholders involved in water resource management. It provides community members with information about proven approaches to protecting and treating water that may be applicable in their community. On the other hand, the portal provides an opportunity to inform the work of technology designers, researchers, consultants, and practitioners with the needs of and gaps in water security at a local, grassroots level. You and your community have the opportunity through this tool to inform your own work and to inspire work in other areas of the world.

To access this database you will need to contact UNU-INWEH. For information on how to do this please see Box 4.
ACTION PLAN

Once a solution has been decided upon, partners need to develop a community action plan. This will lay out what needs to be done, how much it will cost, where the money will come from, and who is responsible for what actions. It will set up the different phases of the project, as required, so that it is easy to keep track of progress. It is important to understand roles and responsibilities and build capacity for operating and maintaining preferred intervention(s).

EVALUATION

After a plan has been implemented and results begin to be visible, the community should gather again and evaluate how well the intervention worked. The W:SE toolkit can be re-applied to look at changes that have occurred since the intervention. Another tool which can be used is the Canadian Index of Wellbeing,24 which is currently undergoing a new phase for global application. Rarely does an intervention follow a straight line. There will be many challenges that will be faced while learning about capacity and current WaSH status. There may be many instances where it is necessary to take a step back and try a different approach. This evaluative stage will ultimately provide new opportunities and identify any barriers that have prevented achieving the full action plan.

BOX 4. HOW TO ACCESS HYDROSANITAS

1. Register through the HydroSanitas website for a username and password at: http://projects.inweh.unu.edu/hydrosanitas/
2. Login using the user name and password.
3. Create a profile.
4. Use the search box to find information about WaSH initiatives or follow the ‘problem’ steps to find WaSH solutions.
5. Begin networking to share your stories; learn about water, environment, and health links; and develop intervention options.

---

24 https://uwaterloo.ca/canadian-index-wellbeing
Part Four

Photo Credit: Dr. Corinne Schuster-Wallace
Conclusions

The objective of this handbook is to inform you about tools and methods that may be instrumental in building community capacity and knowledge to address water, sanitation, environment, and health problems through sustained behavioral change. The tools and methods described serve three general purposes: to increase knowledge of water, environment, and health relationships among community members to inspire sustainable behavior change; to build the strength of the community to tackle problems together through action; and, to inspire and encourage community aspirations and visions for improved community WaSH and wellbeing. It has been designed so that it can be used in a variety of settings. After using these tools and methods you and your team should be able to develop a broad understanding of your community’s KAP as they pertain to WaSH.

Ultimately, the W:ISE toolkit not only collects information about community knowledge, attitudes, and practices, but also empowers communities to learn about water, sanitation, the environment, and their health, build their capacity for change, and provides them with the tools they need to enact it. However, there are several core principles that should always form the basis of any community partnerships. Just as there is no single project or design that can work in every community there is no universal solution to problems that might be uncovered through the W:ISE approach.

KEY WASH AND WELLBEING LESSONS

» Build upon pre-existing traditional knowledge when engaging community members;
» Include all social and demographic groups as this is essential for community success;
» Ensure that solutions are appropriate and sustainable, fulfilling local social, environmental and economic requirements;
» Where non-existent or weak, social capital (the institutions, relationships and norms that shape the quality and quantity of a society’s interactions) should be developed prior to an intervention in order to increase the likelihood for long-term success;
» Ensure external support to augment and develop local technical and management capacity; and,
» Build solutions with the community and from within the community so that they remain true to, and realise, community visions and aspirations.25

Part Five
Glossary

**Gate Keeper:**
Community leader who has credibility with multiple social groups

**Ground truthing:**
A term used to describe the process of going on-site (on the ground) in order to verify information sourced through remote sensing, modelling, or secondary data analysis.

**Key informant:**
An individual that has experience with different areas of the Drinking Water Supply Chain (DWSC) and represents a key demographic group in the community.

**Linkages:**
A connection or association between two or more objects or ideas that influence a person’s attitudes and practices. An example would be the connections a person makes between water, sanitation, and/or hygiene.

**Method:**
A specific way of completing a task that has been predetermined.

**Social capital:**
The institutions, relationships, and norms that shape the quality and quantity of society’s social interactions. This is a crucial component for all forms of development. (World Bank)

**Stakeholder:**
A person who plays an important role in WaSH relations in your community. An example of stakeholder may be a woman who’s in charge of water collection and storage in household.

**Tool:**
A device or instrument that can be used to complete a task.

**WaSH:**
Water, sanitation, and hygiene — a commonly used development term that references the linkages between these three elements.

---

W:ISE Toolkit: Associated Publications


Appendix A

How to Collect Data

Photo Credit: Dr. Corinne Schuster-Wallace
APPENDIX I:

How to Conduct a Household Survey

Household surveys are administered to one individual representing the household, usually the head of household, or in this case, given the importance of women in WaSH, potentially the female head of households. The household survey is based on a semi-structured interview approach. It combines questions which collect quantitative and qualitative data. The quantitative data are collected through questions, which constrain responses to those provided (e.g. Yes/No; option A, B or C). The qualitative data are collected through open-ended questions to encourage participants to provide deeper insight or reflection on a certain topic. While the quantitative data can be used to draw general conclusions and compare responses between different community groups (or different communities), the qualitative data provide the reasoning behind these results.

Sometimes survey respondents will tell you a story that is different from the truth because they feel uncomfortable and want to give answers, which they think are socially acceptable. In order to overcome this natural response you can perform a visual household assessment. This is an important method because assessing observed practices and behaviors may indicate if people have tried to mask the truth in their answers. Observing family dynamics and relations in the household will also inform you about social patterns in the community, which are important for understanding the roles people play and whether the community is ready for change. This method can also reveal differences in resources and capacity between households and neighborhoods in the community.

The process for administering household surveys involves:

1. Sampling strategy;
2. Recruiting participants;
3. Obtaining consent;
4. Administering the survey; and,
5. Analysing the results.

SAMPLING STRATEGY

The sampling strategy should reflect the type of people you are looking to recruit. This can, and should, be based on maximising the diversity of respondents. This diversity can be geographic, cultural, religious, socio-economic or demographic, or a combination of these factors. For example, a sampling strategy could be to recruit old and young female participants with and without children from different parts of a rural community. Sampling can be stratified, meaning that it follows a regular pattern (e.g. every 4th house along a road) or random, meaning that you don’t use a pattern to select who you survey (e.g. people at a community event).
A stratified random sample is used to ensure representation from different groups (stratified), while not being concerned with who you survey within that group (random).

**RECRUITMENT**

In order to ensure that you find enough participants, there are several recruitment tools that you can use. The first is to seek the support of community leaders, the second is to put posters up in community places, and the third is to go to places where specific groups meet and ask them in person (e.g. women at a water collection point). When asking in person, it is important to provide a contact so that the individuals can follow up with the recruiter at a later time and not feel pressured to participate. It is always important to obtain advance voluntary informed consent from participants.

**ADMINISTERING THE SURVEY**

Anyone can administer a survey provided that they: a) can speak the language or have a translator; b) have been trained in survey techniques; and, c) have had supervised practice surveying. It should be noted that people from outside the community may face issues of mistrust, or misunderstanding, particularly if they do not speak the local language. Hiring and training community members has the advantage of building local capacity, increasing their knowledge of positive water-environment-health relationships, contributing to the local economy and overcoming potential barriers of having a non-community member administer the survey. However, community members can be so familiar with the respondents that they either answer for the respondent or, the respondent is hesitant to share certain information.

The questionnaire can be completed using a pen/pencil and paper or on a tablet loaded with the surveys developed using QuestionPro© software.

**ADDITIONAL RESOURCES**


Living Standards Measurement Study Surveys Distance Learning Course: http://lsms.adeptanalytics.org/course/Home_eng.html
APPENDIX II: How to Conduct Focus Groups

A focus group collects information from a group of participants, rather than one person at a time. Focus groups are a useful strategy for collecting information about KAP because they allow for dialogue to occur. The schedules in the WiSE toolkit collect similar information about interests, perspectives, beliefs, and attitudes around important water, sanitation, environment, and health issues, such as the use of latrines or water collection practices. This tool provides you with an opportunity to observe community relations during group discussions. One of the main goals of a focus group is to create a space for dialogue between participants so that a variety of perspectives on water and health can surface, potentially providing more information than a one-on-one interview would. A focus group can also allow you to witness similarities and differences in opinions among community members, allowing you to observe in advance where problems may arise during project planning or implementation. If conducted in a safe environment, focus groups can empower community members as they take on an active role in assessing their KAP and brainstorming goals for the future. Most importantly, it can become a motivational session that can lead to new ideas for addressing community gaps in WaSH.

The process for focus groups follows the same steps as for household surveys, although recruitment involves a smaller number of participants. It is also important to ensure that focus groups do not include participants who hold different amounts of power in the community, as this can lead to intimidation on behalf of some participants. Usually this means that focus groups recruit participants of similar age, gender, and socio-economic status.

The focus group should be hosted at a time and place that is convenient for participants and where they feel comfortable sharing their experiences. Focus groups do not have a set length of time that they should last, but it is important to be sensitive to participants, their comfort, needs, and the burden of time. It is crucial to create a safe environment, both for the comfort and wellbeing of the participants and for the quality of data collected, as people are more likely to share their knowledge and attitudes when they are at ease. One way to set your participants at ease may be to offer them a choice of what language the groups use for discussion. It is important that you have translators available for this purpose.

ADDITIONAL RESOURCES


Focus Group — Participant Characteristics

These characteristics were originally used by Levison27 and have been adapted for general use. Make sure that you include questions at the start of the data collection process so that you will be able to group the responses according to the pre-determined characteristics when you start the data analysis. The following table gives some examples of the types of criteria you may apply to stratify your data and some examples of criteria by which to differentiate them. It may be useful to adapt some of these characteristics to best capture the important demographics in your community based on the question(s) you are asking.

<table>
<thead>
<tr>
<th>SOCIO-ECONOMIC CRITERIA</th>
<th>ROLES AND RESPONSIBILITIES</th>
<th>LOCATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Age</td>
<td>Marital Status</td>
<td>Children</td>
</tr>
<tr>
<td>Younger Women</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Older Women</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Younger Men</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Older Men</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

APPENDIX III:

How to Conduct Photo Voice

Photo voice is a unique activity that engages community members in showing, as well as learning about, relationships between water, sanitation, environment, and health. Participants are taught how to use a camera and take photographs, given a disposable camera, and asked to go out into the community and take pictures related to a topic while they go about their daily lives. It is a method that can provide strong visual snapshots of each participant's interaction with WaSH on a daily basis, and may illustrate some of the problems that your community is facing. It engages community members in the process of collecting data, enabling them to frame the water issues at hand. Participants come back together in a focus group setting to share their pictures as a basis for dialogue. The discussions which follow provide a different perspective to be incorporated into the overall analysis.

Through this method participants are able to express their perceptions of WaSH in a way that is inclusive, as it does not rely on literacy rates or social status. This method allows community members to take control of the project and fully contribute to its direction while learning about safe WaSH practices. Previous experiences show that this type of consultation is an effective way to build a strong partnership between your team and the community.

Recruitment for photo voice tends to piggyback on other methods. For example, a group of people who participated in household surveys could be asked to continue their participation through photo voice. Alternatively, photo voice can be incorporated as an additional focus group activity. In the W:ISE toolkit context, the latter approach has been most widely used. Rather than taking a random approach to photo voice participants, it can be useful to ask specific people who seem most engaged in and enthusiastic about the process in order to ensure follow through with the photography. There should be fewer participants engaged in this method of data collection than the number that participated in the focus groups.

References:

TRAINING

You should first provide photo voice participants with some training that explains the significance of the activity and what they should be aiming to capture when taking photos. The training should take place at a mutually agreed-upon time and the importance of asking for consent to photograph another person should be discussed. You must also ensure that participants are fully trained in using a disposable camera. Over a short period of time (between one and two weeks is optimum), community members will document social and environmental experiences in their community.

DISCUSSION

Once the cameras have been handed in, the photographs need to be developed in duplicate (one for the database and one for the participant). Participants should reconvene to view the photographs they have taken and discuss them. This should follow the principles laid out for focus groups. Each photographer should select three photographs that they think best convey the message they are trying to explain. You and the photographers should facilitate a discussion around the photographs to discover where and why they were taken and what they represent to the photographer. This activity provides community members with an opportunity to express their experiences, knowledge, and preferences. Following this discussion the community can decide what they would like to do with the photographs. One suggestion for their use is to contribute to an education campaign that teaches about safe WaSH practices.

ADDITIONAL RESOURCES


APPENDIX IV:
How to Conduct Key Informant Interviews

In addition to collecting information from community members, it is important to understand the broader context within which community perceptions, knowledge, attitudes, and practices are being shaped and formed. Key Informants are individuals who have a leadership role, either within the community, or the broader area and/or are technical experts. Ideally, between six and ten interviews will be conducted with people who hold different views and roles. Unlike community methods, these informants are targeted, so sampling and recruitment strategies are different. Typically participants are identified through snowball sampling — one or two key people are identified and, during their interviews, are asked who else should be spoken to. Once the same key messages and themes are being shared, and/or, a broad representation has been achieved, the snowball sampling can be stopped.

Interviews should be held in the participant’s place of work, at a time that is convenient for them, and in the language which they prefer. Research suggests that you should begin the interview with some general discussion and questions; you should attempt to create a dialogue and environment where the participant feels comfortable so that they are able to address more difficult or sensitive questions later on (Levison, 2010). You should record the interviews, either digitally or manually, with the permission of the participant, so that you can review them at a later date.

ADDITIONAL RESOURCES


APPENDIX V:

How to Conduct Community Meetings

Community meetings are an important vehicle for maximising the number of community members reached. Typically these are regular and familiar events where findings can be reported back to community members; members can be taught about aspects of water, sanitation, environment, and health; and, more information can be solicited from members. This method allows for overlooked or undiscovered themes and problems to emerge. Additionally, this method can increase community cohesion and empowerment through dialogue. Meetings can enable communities to work together and reconcile differences. They can be empowering and can develop sustainable, long-term solutions.

This is an important method, as it is not always feasible to survey every community member through household surveys or focus groups. Holding community meetings provides community members with an opportunity to voice their opinion or ask questions. It can be a learning opportunity for those who have questions about WaSH and it can be an opportunity for you and your team to learn about information that has not been provided by other participants. Additionally, this is a method that allows the community to come together to discuss and determine issues that require attention.

There may be some disagreement about WaSH issues among community members but it is important for this tension to be dealt with in advance of implementing a project. In this way, it can be identified and hopefully resolved, instead of potentially derailing future projects where it may act as a barrier to development. Community meetings allow the community to take ownership of any problems and solutions they come up with, which is an important part of the W:ISE objectives.

It is important to find a time and location to hold community meetings that is convenient for community members so that as many people as possible may attend. You should be aware of which groups or individuals are able to attend a meeting during certain times, and which may not, so that you can plan for a variety of groups to be represented during meetings. You should discuss your plans with community leaders to ensure that you select an appropriate time and location. You should plan your meeting ahead of time with an understanding of what you and your team will say and what you will not; the types of questions you anticipate or could ask community members; and set a time for discussion and questions at the end of the meeting. This is an opportunity to learn more about linkages in the community and you should have a team member record the proceedings, after disclosing this information with the group, so that you can review it later. You may have to have more than one community meeting to reach an adequate number of community participants.

You can ask community leaders to act as liaisons and spread the word about community meetings. During meetings it is important that you use the preferred language of the majority of people when discussing your findings so far, which may require a translator. Through this method, community members can take ownership of the WaSH problems they have in their community. This may also be a time for community members to develop ideas for future action and to begin an educational campaign, if one had not previously been implemented, so that community members can continue to learn more about safe WaSH practices.
ADDITIONAL RESOURCES


Community Tool Box - Section 1. Conducting Effective Meetings: http://ctb.ku.edu/en/table-of-contents/leadership/group-facilitation/main


Community mapping is a technique that allows individuals to share knowledge of their community, environment, and social patterns with you through their drawing of maps. Community mapping further allows participants to teach you about their perceptions of community space. This method also acts as a form of empowerment for participants as they are able to contribute to the intervention. It involves having community members physically highlight important areas related to WaSH and social activities on a map of their community, or to draw a map of their community for you. There are many types of participatory community mapping, as shown in Table A.VI.1.

In order for the community to develop a full understanding of the relationship between water, sanitation, the environment, and health, they must be aware of how their actions and practices interact with water resources. Participatory community mapping empowers community members by allowing them to determine the important locations for water and health in the community. Participatory community mapping can be complemented by ground truthing or community walkabouts using global positioning system (GPS) mapping. Utilising a GPS, you and your team can map key water and sanitation sites and important community areas. Having community members train with GPS and map important features also contributes to capacity development. The map that you produce could aid future WaSH projects and research in the community.

Similar to recruiting procedures used in the other tools and methods in this handbook, participants should be selected for this activity based on their socioeconomic and geographic positions in the community. Community mapping involves community members highlighting areas that are important to them, such as latrines or water sources, on a map. It is best to conduct this activity wherever the participants feel most comfortable so that they are able to provide many details about important community and water and sanitation sites. In order to do this, pencil crayons, pens, and a pencil sharpener should be provided to the participants. You may ask them to draw how they perceive their community and encourage them that there is no wrong answer. Have them focus on areas where they interact with water or conduct sanitary practices (e.g. Box A.VI.1). It is important to show your appreciation for their assistance and you can do this by leaving behind the supplies that you brought with you.

You and your team can use a GPS to collect and map all of the field sites that you visit, including water collection points, latrines, and households. During the process of collecting GPS coordinates you should record longitudinal and latitudinal coordinates and elevations.

**APPENDIX VI:**

**Participatory Community Mapping**

**BOX A.VI.1. WHAT COULD GO ON THE MAP?**

- Latrines and water sources
- Houses
- Community boundaries
- Drainage systems
- Status of land
- Locations of small businesses
- Infrastructure like schools and health clinics
- Other important sites to the participant

**ADDITIONAL RESOURCES**

<table>
<thead>
<tr>
<th>TYPE OF MAP</th>
<th>DESCRIPTION</th>
<th>RESOURCES</th>
<th>STRENGTHS</th>
<th>WEAKNESSES</th>
</tr>
</thead>
<tbody>
<tr>
<td>GROUND</td>
<td>Community members draw maps on the ground from memory using natural resources.</td>
<td>Raw material: • Open space • Paper to draw finished map • Camera (if available to photograph the map)</td>
<td>• Low cost • Simple to complete • Members can interact with the product</td>
<td>• Cannot reproduce • Impermanent • Not to scale</td>
</tr>
<tr>
<td>SKETCH</td>
<td>These maps are drawn on large pieces of paper from memory. Community members draw important features on the map.</td>
<td>• Large sized paper • Pens, coloured pens, pencils</td>
<td>• If multiple demographic groups participate (related to age, gender, education, etc.) this can be telling of different experiences in the community • Low cost • Easy to complete</td>
<td>• Inaccurate often • Not to scale • Lack of accuracy can undermine credibility</td>
</tr>
<tr>
<td>TRANSECT</td>
<td>A map that involves important community features (churches, schools, etc.) and geophysical features (types of land, etc.) along an imaginary line that you will walk with community members.</td>
<td>• Paper and coloured pencils</td>
<td>• Involves as many ecological, production and social groups along the route as possible • Stimulates community discussions • Low cost • Easy to replicate • Tracks participant’s everyday movements</td>
<td>• Does not promote geographic or locational accuracy • Limited perspective of the landscape • Lacks credibility with government officials</td>
</tr>
<tr>
<td>SCALE</td>
<td>A map that is geographically accurate to the community. Distance between objects can be measured on this map and the measurement will be the same in the community.</td>
<td>• Scale maps (that show where key features of the community and its environment are) • Large sheets of mylar (transparent plastic sheets) • Pencils and/or coloured pens</td>
<td>• Understandable and accurate representation of the community • Fast so long as resources are available and training is not required • Low cost</td>
<td>• Access to scale maps can be difficult • Lack of accuracy • Training is required • Harder to understand this procedure, compared to sketch, transect and ground mapping</td>
</tr>
</tbody>
</table>

---

Appendix B

Tools

Photo Credit: Dr. Corinne Schuster-Wallace
APPENDIX VII:

KAPE Questionnaire: Community Leader

Used in Kenya, translated into Kiswahili

INTRODUCTION AND INSTRUCTIONS:

Hello. I am ________________ and this is ________________ (translator/facilitator). Thank you for agreeing to participate in this questionnaire. Today I will ask you some general questions about yourself and your community. You do not have to answer any questions that you do not want to. We know you are very busy. Participation is your choice, and it is okay to say no. We do not have money to give you. Would you like to participate in the survey?

Was the participant informed?  Please circle:  Yes  No
Is he/she willing to participate?  Please circle:  Yes  No

Signature (Interviewer): __________________________________________

Signature (Interviewee): __________________________________________
GENERAL BACKGROUND

I would like to begin by asking you some general questions about you and your community.

1. *How many people live in your community?

2. *How many households are in your community?

3. *How many of the people in your community are children <16 years of age?

4. *How many of the people in your community are children <5 years of age?

5. *How many schools are in your community?

6. *How many people are educated? What is the highest level of education?

7. *What types of jobs are available in your community?

8. *What do you do for work?

9. *How long have you lived here in your community?

10. *What are you proud of about your community?

11. *You have been identified as a respected leader in this community.

   *a) How long have you had this job?
*b) What is your role in this community?
_________________________________________________________________________________________________________

c) How are you involved in community activities?
_________________________________________________________________________________________________________

12. *Who are the vulnerable people in your community?
_________________________________________________________________________________________________________

13. *What are the major challenges facing your community right now?
_________________________________________________________________________________________________________

14. *How are these challenges different from the challenges you’ve faced in the past?
_________________________________________________________________________________________________________

15. *How does the community cope with these challenges?
_________________________________________________________________________________________________________

COMMUNITY HEALTH INFORMATION

Through these questions, we hope that your community can begin to understand the health concerns of you and your children. These questions will help us to work with you in achieving your community’s goals.

16. *a) In general, how would you rate the health of your community?

☐ Very Good ☐ Good ☐ Moderate ☐ Bad ☐ Very Bad

*b) What are the main health problems that people in your community face?
_________________________________________________________________________________________________________

*a) In general, how would you rate the health of men in your community?

☐ Very Good ☐ Good ☐ Moderate ☐ Bad ☐ Very Bad

*b) What are the main health problems that men in your community face?
_________________________________________________________________________________________________________
17. *a) In general, how would you rate the health of women in your community?*

- Very Good
- Good
- Moderate
- Bad
- Very Bad

*b) What are the main health problems that women in your community face?*

18. *a) In general, how would you rate the health of your children <5 years of age?*

- Very Good
- Good
- Moderate
- Bad
- Very Bad

*b) What are the main health problems that children <5 years of age in your community face?*

19. *What are the main causes of health problems in your community?*

20. *a) Where is the closest health care provider?*

*b) What services do they provide?*

**HEALTH, WATER AND SANITATION NEEDS**

Thank you. The next set of questions relates to current water and sanitation needs in your community.

21. *What are the main sources of drinking water for members in your community?*

<table>
<thead>
<tr>
<th>SOURCE OF WATER</th>
<th>YES/NO</th>
<th># OF COMMUNITY MEMBERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Piped water into a dwelling</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Piped water into a yard/plot</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Public tap/standpipe</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tubewell/borehole</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Protected dug well</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unprotected dug well</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Protected spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unprotected spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rainwater collection</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bottled water</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SOURCE OF WATER</td>
<td>YES/NO</td>
<td># OF COMMUNITY MEMBERS</td>
</tr>
<tr>
<td>----------------</td>
<td>--------</td>
<td>------------------------</td>
</tr>
<tr>
<td>Cart with small tank/drum</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tanker-truck</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Surface water (river, dam, lake, pond, stream, canal, irrigation channels)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other (specify)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

22. a) Have these water sources changed from the past? □ Yes □ No

*b) If so, how and why?

23. *In your community, what do you think most of the water is used for? (Prompt: for farming, for drinking, for house cleaning)

24. In your community, what is your priority use for water? (Prompt: agriculture, domestic, business)

25. *In your opinion, what are the main factors that determine whether families have access to safe water in your community? (Prompt: wealth, location in village, position of power)

26. *In your opinion, what are the main factors that determine whether families have access to sanitation in your community?

27. *Please rate your community on the following statements:
(1 = strongly disagree, 2 = disagree, 3 = neutral, 4 = Moderately agree, 5 = strongly agree)

a) Community members are interested in becoming involved in water related issues

b) Community members are aware about water related issues in your community

c) Community members have knowledge about water related issues in your community

28. *In your experience, can you please tell me some of the things (programs or activities) that your community does to promote health, safe drinking water and/or sanitation?
29. *Do you feel that these things (programs or activities) are effective in promoting health, safe drinking water and/or sanitation? Why or why not?

_________________________________________________________________________________________________________

30. *What do you see as the biggest accomplishment your community has made in improving access to water and/or sanitation?

_________________________________________________________________________________________________________

31. *What do you see as the most important priority for your community as you seek to improve access to water and sanitation? (Prompt: why is this important?)

_________________________________________________________________________________________________________

CONCLUSION

Thank you so much for your time and contributions. This is the end of our questions, but we would still welcome any additional comments, ideas, or concerns that you have. Is there anything we forgot or anything you would like to add?

*identifies questions which form the core of the KAPE Assessment tool and should be included in any design.
APPENDIX VIII:

KAPE Questionnaire: Community Member

Used in Kenya and Sierra Leone, translated into Kiswahili.

INTRODUCTION AND INSTRUCTIONS:

Hello. I am ______________________ and this is ______________________ (translator/facilitator). Thank you for agreeing to participate in this questionnaire. Today I will ask you some general questions about yourself and your community. You do not have to answer any questions that you do not want to. We know you are very busy. Participation is your choice, and it is okay to say no. We do not have money to give you. Would you like to participate in the survey?

Was the participant informed? Please circle: Yes  No

Is he/she willing to participate? Please circle: Yes  No

Signature (Interviewer): ____________________________________________

Signature (Interviewee): ____________________________________________
GENERAL BACKGROUND

I would like to begin by asking you some general questions about you and your community.

1. *How many people live in your household? 

2. *How many of the people who live in your household are children <5 years of age? 

3. *How many of the people who live in your household are children <16 years of age? 

4. *How many of your children go to school? 

5. *a) Have you been to school? ☐ Yes ☐ No  
   *b) If yes, how far did you go in school? 
   ☐ Some primary 
   ☐ Complete primary 
   ☐ Some secondary 
   ☐ Complete secondary 
   ☐ Beyond secondary 

6. *What do you do for work? 

______________________________________________________________________________

7. *How long have you had this job? 

______________________________________________________________________________

8. *Were you born in the city/village/tribe where you currently live? 
   ☐ Yes ☐ No ☐ Don’t Know 

9. *How long have you lived here? 

______________________________________________________________________________

10. *What are you proud of about your community? 

______________________________________________________________________________

11. *What are the major challenges facing your community right now? 
    *(Prompt: jobs, health, corruption, school, electricity, crime)* 

______________________________________________________________________________
12. *How are these challenges different from the challenges you’ve faced in the past?

_________________________________________________________________________________________________________

13. *How does the community cope with these challenges?

_________________________________________________________________________________________________________

14. *What do you estimate is the average weekly household income in your community?  

15. *Based on this average, would you rank your household income as:

   □ Above average  □ Average  □ Below average

COMMUNITY HEALTH INFORMATION

Through these questions, we hope that your community can begin to understand the health concerns of you and your children. These questions will help us to work with you in achieving your community’s goals.

16. *In general, how would you rate/describe the health of your community?

   □ Very Good  □ Good  □ Moderate  □ Bad  □ Very Bad

17. *In general, how would you rate/describe your family’s health?

   □ Very Good  □ Good  □ Moderate  □ Bad  □ Very Bad

18. *In general, how would you rate the health of your children <5 years of age?

   □ Very Good  □ Good  □ Moderate  □ Bad  □ Very Bad

19. *What are the main health problems in your community?  
   (Prompt: pregnancy, diarrhoea, fever)

_________________________________________________________________________________________________________

20. *What are the main health problems that your children and other children in your community face?  
   (Prompt: diarrhoea, fever, rash)

_________________________________________________________________________________________________________
21. *What do you believe are the main causes of health problems in your community? (Prompts: water, mosquitoes, accidents, working too hard)

_________________________________________________________________________________________________________

22. *How long does it take you to get to the closest health care provider?

_________________________________________________________________________________________________________

23. *a) Have any of your household members, including children, have suffered from diarrhoea in the past 2 weeks? Diarrhoea is defined as the passage of 3 or more loose or liquid stools per day, or more frequently than is normal for the individual.

☐ Yes ☐ No

*b) If yes, how many? ________

*c) If yes, how many were children <5 years of age? ________

Please fill in the following table:

<table>
<thead>
<tr>
<th>CHILD</th>
<th>AGE</th>
<th>TREATMENT FOR DIARRHOEA (Yes, No, DK)</th>
<th>WHAT KIND OF TREATMENT? [traditional medicine/healer; buy medicine from pharmacy/kiosk; visit the health care/doctor; other (specify)]</th>
<th>HAS YOUR CHILD HAD ANY OTHER ILLNESSES? (Yes, No, DK) If yes, please explain.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Child #1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Child #2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Child #3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Child #4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Child #5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
WATER NEEDS

Thank you. The next set of questions is about how you see water needs in your community.

24. *What are the main sources of drinking water for members in your household?

<table>
<thead>
<tr>
<th>SOURCE OF WATER</th>
<th>CHECK Yes OR No</th>
<th>FREQUENCY (# of times per week)</th>
<th>USED IN DRY OR WET SEASON (Check which apply)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Piped water into a dwelling</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Piped water into a yard/plot</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Public tap/standpipe</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tubewell/borehole</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Protected dug well</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unprotected dug well</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Protected spring</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unprotected spring</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rainwater collection</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bottled water</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cart with small tank/drum</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tanker-truck</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Surface water (river, dam, lake, pond, stream, canal, irrigation channels)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other (specify)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

a) *Have these water sources changed from the past? If so, how and why? □ Yes □ No

b) *If so, how and why?
25. *What is the main source of water used by your household for other domestic purposes, such as cooking and hand washing etc.? (Fill in all that apply.)*

<table>
<thead>
<tr>
<th>SOURCE OF WATER</th>
<th>CHECK YES OR NO</th>
<th>FREQUENCY (# of times per week)</th>
<th>USED IN DRY OR WET SEASON (Check which apply)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>YES</td>
<td>NO</td>
<td>DRY</td>
</tr>
<tr>
<td>Piped water into a dwelling</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Piped water into a yard/plot</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Public tap/standpipe</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tubewell/borehole</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Protected dug well</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unprotected dug well</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Protected spring</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unprotected spring</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rainwater collection</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bottled water</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cart with small tank/drum</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tanker-truck</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Surface water (river, dam, lake, pond, stream, canal, irrigation channels)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other (specify)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

26. Who has the major responsibility for water collection for your household?

- [ ] Adult woman
- [ ] Adult man
- [ ] Female child (<15 years)
- [ ] Male child (<15 years)
- [ ] Don’t Know

a) How long does it take one person to go to your water source, get water, and come back?

_________________________________________________________________________________________________________

b) How many round trips are made in total by your household each day to collect water?
27. In your community, what do you think most of the water is used for?
(Prompt: for farming, for drinking, for house cleaning)

_________________________________________________________________________________________________________

28. In your household, what is your priority use for water?
(Prompt: bathing, drinking, laundry)

_________________________________________________________________________________________________________

a) How do you know when the water you use is clean and/or safe?
(Prompt: color, odor, particles, told it is safe by others)

_________________________________________________________________________________________________________

b) If you do not think it is clean and/or safe, what things have you done to try to deal with it?
(Prompt: boil; add bleach/chlorine; strain it through a cloth; use a water filter; solar disinfection; let it stand and settle)

OR

If you do not think it is clean and/or safe, why have you not done anything to deal with it?

_________________________________________________________________________________________________________

29. In your opinion, what are the main factors that determine whether families have access to safe water in your community?
(Prompt: wealth, location in village, position of power)

_________________________________________________________________________________________________________

a) Describe what your ideal access would be.

_________________________________________________________________________________________________________

b) What would you be willing to pay for this?

_________________________________________________________________________________________________________
SANITATION

Thank you. Now we have a few questions about sanitation in your community.

30. Where do your young children <5 years of age go to urinate?

_________________________________________________________________________________________________________

31. Where do your young children <5 years of age go to defecate?

_________________________________________________________________________________________________________

32. Where do people over the age of 5 in your household most often go to urinate?

a) ________________________________________________________________________________________________

b) ________________________________________________________________________________________________

32. Where do people over the age of 5 in your household most often go to defecate?

_________________________________________________________________________________________________________

a) ________________________________________________________________________________________________

b) ________________________________________________________________________________________________

33. If applicable, what kind of toilet facility do members of your household use?

☐ Flush/pour flush to:
  ☐ piped sewer system
  ☐ septic tank
  ☐ pit latrine
  ☐ elsewhere
  ☐ unknown place/not sure/DK where

☐ Ventilated improved pit latrine

☐ Pit latrine:
  ☐ with slab
  ☐ without slab/open pit

☐ Composting toilet

☐ Bucket

☐ Hanging toilet/hanging latrine

☐ Other (specify) __________________________________________________________
a) Do you share this facility with other households?

☐ Yes ☐ No ☐ Don’t Know

b) If so, how many households use/share this toilet facility?

_________________________________________________________________________________________________________

c) If you don’t share these facilities, would you be willing to share toilet facilities?

☐ Yes ☐ No ☐ Don’t Know

34. In general, how would you rate/describe you sanitation and toilet facilities?

☐ Very Good ☐ Good ☐ Moderate ☐ Bad ☐ Very Bad

35. In your opinion, what are the main factors that determine whether families have access to sanitation facilities in your community?

(Prompt: wealth, location in community, position of power)

_________________________________________________________________________________________________________

a) Briefly describe what your ideal access would be.

_________________________________________________________________________________________________________

b) Would you be willing to pay for this access?

☐ Yes ☐ No ☐ Don’t Know

c) If yes, how much would you be willing to pay per week?

_________________________________________________________________________________________________________

d) If no, why not?

(Prompt: financial barriers, a convenient toilet facility is already present, never thought about it before)

_________________________________________________________________________________________________________
HEALTH AND HYGIENE

Thank you. This set of questions deals with health and hygiene in your community.

36. From whom do you learn about health information, such as ways to keep your children healthy or ways to ensure that you are healthy and can work?
   (Prompt: health practitioner, public information, NGO, relative)

_________________________________________________________________________________________________________

37. From whom would you prefer to learn about health information? (Prompts: head mama, women’s group leader, public health nurse, someone from outside the community).

_________________________________________________________________________________________________________

38. Do you regularly use soap?
   □ Yes □ No

   a) If yes, what do you use it for? (Prompts: dish washing, laundry, hand washing, bathing)

_________________________________________________________________________________________________________

   b) If no, why not?

_________________________________________________________________________________________________________

I would like to ask you a few questions about how children in your household use soap for hand washing.

39. Please indicate in the following chart how often and when your children <5 years of age use soap for hand washing at the following times.

<table>
<thead>
<tr>
<th>ACTIVITY</th>
<th>NEVER</th>
<th>RARELY</th>
<th>SOMETIMES</th>
<th>MOSTLY</th>
<th>ALWAYS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Before eating</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>After eating</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Before cooking</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>After urinating</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>After defecating</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Before sleeping</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upon waking</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>When hands are dirty</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>When bathing</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other (specify)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
40. Do you currently have a cake of soap on the premises?

☐ Yes  ☐ No  ☐ Don’t Know

a) If so, where do you keep it?

LOCAL PERCEPTIONS AND BEHAVIOURS RELATED TO WATER AND HEALTH

41. Where do you get information from on health, water and sanitation?

(Prompt: medical practitioners, community resource persons, community meetings, community leaders, neighbours/family/friends etc.)

42. Have you ever received any information regarding diarrhoea?

☐ Yes  ☐ No  ☐ Don’t Know

a) If Yes, what was the source of the information?

(Prompt: medical practitioners, community resource persons, child in school, community meetings, community leaders, telecommunications, neighbours/family/friends etc.)

43. Has your child/children received any teachings about diarrhoea at school?

☐ Yes  ☐ No  ☐ Don’t Know

44. Do you know what causes diarrhoea?

(Prompt: drinking Bad water; eating Bad food; flies/insects; poor hygiene; spirits/curse/Bad omen)

45. How can you prevent you or your family from getting sick/diarrhoea?

(Prompt: cannot prevent; herbs; wash hands; cook food thoroughly; boil and treat water; clean cooking utensils/vessels)

46. Are you currently a member of an environmental, conservation or watershed organisation?

☐ Yes  ☐ No  ☐ Don’t Know
47. Please rate yourself on the following statements:
   (1 = strongly disagree, 2 = disagree, 3 = neutral, 4 = Moderately agree, 5 = strongly agree)
   a) I am interested in becoming involved in water related issues
   b) I am aware about water related issues in my community
   c) I have knowledge about water related issues in my community

48. How much do you agree with the following statements:
   (1 = strongly disagree, 2 = disagree, 3 = neutral, 4 = Moderately agree, 5 = strongly agree)
   a) My community is a place that I feel a strong connection with
   b) My community is a place that I care a lot about
   c) There are places in my community that are special to me
   d) Community members have an emotional and physical bond with our community
   e) My community has a sense of togetherness
   f) Mistrust/suspicion of others is an issue in my community

CONCLUSION

Thank you so much for your time and contributions. This is the end of our questions, but we would still welcome any additional comments, ideas, or concerns that you have. Is there anything we forgot or anything you would like to add?
APPENDIX IX:

KAPE Focus Group

INTRODUCTION AND INSTRUCTIONS:

Hello. I am ______________________ and this is ______________________ (translator/facilitator). Thank you for agreeing to participate in this questionnaire. Today I will ask you some general questions about yourself and your community. You do not have to answer any questions that you do not want to. We know you are very busy. Participation is your choice, and it is okay to say no. We do not have money to give you. Would you like to participate in the survey?

Was the participant informed?  
Please circle:  Yes  No

Is he/she willing to participate?  
Please circle:  Yes  No

____________________________
Signature (Interviewer):

____________________________
Signature (Interviewee):
I would like to begin by asking you some general questions about you and your community.

1. **Can you please introduce yourselves to us?**

   **Participant 1:**
   - **Name:** _______________________________
   - **Age:** _______________________________
   - **Family Status:** _______________________________
   - **How many people live in your household?** _______________________________
   - **How many children do you have?** _______________________________
   - **What is your favourite leisure activity?** _______________________________

   **Participant 2:**
   - **Name:** _______________________________
   - **Age:** _______________________________
   - **Family Status:** _______________________________
   - **How many people live in your household?** _______________________________
   - **How many children do you have?** _______________________________
   - **What is your favourite leisure activity?** _______________________________

   **Participant 3:**
   - **Name:** _______________________________
   - **Age:** _______________________________
   - **Family Status:** _______________________________
   - **How many people live in your household?** _______________________________
   - **How many children do you have?** _______________________________
   - **What is your favourite leisure activity?** _______________________________

   **Participant 4:**
   - **Name:** _______________________________
   - **Age:** _______________________________
   - **Family Status:** _______________________________
How many people live in your household? _____________________________

How many children do you have? _____________________________

What is your favourite leisure activity? _____________________________

Participant 5: Name _____________________________

Age _____________________________

Family Status _____________________________

How many people live in your household? _____________________________

How many children do you have? _____________________________

What is your favourite leisure activity? _____________________________

Participant 6: Name _____________________________

Age _____________________________

Family Status _____________________________

How many people live in your household? _____________________________

How many children do you have? _____________________________

What is your favourite leisure activity? _____________________________

Participant 7: Name _____________________________

Age _____________________________

Family Status _____________________________

How many people live in your household? _____________________________

How many children do you have? _____________________________

What is your favourite leisure activity? _____________________________
Participant 8: Name ____________________________________________
Age ____________________________________________
Family Status ____________________________________________
How many people live in your household? ______________________________
How many children do you have? ______________________________________
What is your favourite leisure activity? ________________________________

2. Tell me about your community.

What are the major challenges facing your community right now?

Are they different from the challenges you have faced in the past?
» How are they different?

How does the community cope with these challenges?
» What do you do about them?

How is health in this community?
» Your health?
» Your family’s health?
» The community’s health?

What’s the major health concern in this community right now?
» For adults?
» For children?

Is this different than it’s been in the past?
» How?
» In what way?

In what ways has this community addressed these health issues?

What happens when someone gets sick….
» You?
» Your husband / wife?
» Your mother?
» Your children?

Who teaches you how to stay healthy? (mum/parents; school; community health workers; community elder/leader; other)
» Do you teach your children how to stay healthy? What do you tell them?
Where do you get your water from?
» Why?
» How?
» How often?

Do you use different sources of water at different times? Tell me about that.
» Is this different from where you’ve taken water from in the past?
» Why?
» How?

Are some water sources better than others?
» Cleaner?
» Safer?
» Better for you?
» Better for the children?

How do you know when the water is clean and/or safe?
» (If not clean/safe) What things have you done to try to fix this?
» If nothing, why not? (What are the barriers to action)

Are there things this community could do to improve local water supplies? *(Refer back to barriers, if appropriate.)*

Do you have latrines in this community?
» Why not if they say no
» Where are they?
» Are they used?
» By adults? (If not used, ask why not)
» By the children? (If not used, ask why not)
### PURPOSE OF CHECKLIST:

This checklist will guide in the collection of perceptions related to water, sanitation and health, and the current attitudes and practices in the community.

<table>
<thead>
<tr>
<th>CONSTRUCT</th>
<th>QUESTION</th>
<th>PROBES</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PERCEPTION OF THE COMMUNITY SPACE</strong></td>
<td>To start out with, I am going to ask you to draw for me a map of your community. Please highlight areas in your community such as latrines, water collection areas, and anything else that you think is important.</td>
<td>Please feel free to add anything within your community that you feel is important. Which of the places found on your map is the most important to you? Why?</td>
</tr>
<tr>
<td><strong>SOCIO-ECONOMIC STATUS</strong></td>
<td><strong>Ok, now I am going to ask a few questions about your home and daily life.</strong></td>
<td><strong>1. If yes, do you use it for cooking?</strong> If no, what do you use for cooking your food?</td>
</tr>
<tr>
<td>» Current economic standing</td>
<td>1. Do you have electricity?</td>
<td>4a. If some children do not attend school, why not? Is it age, gender, money?</td>
</tr>
<tr>
<td>» Facilities within their home and community</td>
<td>2. Does your family have a radio?</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3. What is your house made of? Is this typically what houses are made of in your community? How many rooms do you have?</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4. How many children do you have? Do they all attend school?</td>
<td></td>
</tr>
<tr>
<td></td>
<td>5. What are the goals for your children? What do you want them to be when they grow up?</td>
<td></td>
</tr>
</tbody>
</table>
Thank you very much! Now I am going to change topics, and ask you some questions about the water and sanitation facilities in your community.

1. Do you have running water in your house? Near your house? Within your community? How far is it?
2. Do you get your water from the same sources every day? If not, why?
3. Is the water clean? How do you know it’s clean?
4. Do you treat your water? What method do you use to treat it?
5. How do you store your water? How do you transport your water?
6. Can you show me how you get your water out of the container?
7. How do you use your water? How much do you use on a daily basis?

Great, now I’m going to ask you about your sanitation facilities.

1. Do you have a latrine?
2. How long have you had the latrine? What made you put a latrine in? How did you pay for the latrine?
3. Do you use it? Does everyone in the household use it?
4. Do your neighbors have a latrine? Do they use it? Do your neighbors use your latrine?
5. Who is responsible for maintaining the latrine? Who would take responsibility if you shared the latrine?
6. What about babies and small children? Where do they defecate?
7. What happens to the waste from the latrines? Would you be willing to compost the waste and use it as fertiliser on your crops?

<table>
<thead>
<tr>
<th>CONSTRUCT</th>
<th>QUESTION</th>
<th>PROBES</th>
</tr>
</thead>
<tbody>
<tr>
<td>WATER AND SANITATION</td>
<td></td>
<td></td>
</tr>
<tr>
<td>» Availability of water</td>
<td></td>
<td>1a. If not, where do you get your water from? How do you collect it? How much time does this take?</td>
</tr>
<tr>
<td>» Perception of “safeness” of water within the community</td>
<td></td>
<td>4a. Do you boil, use chlorine, filters? Why/why not?</td>
</tr>
<tr>
<td>» Availability of sanitation facilities and how they use them</td>
<td></td>
<td>5a. Why do you do it this way?</td>
</tr>
<tr>
<td>»</td>
<td></td>
<td>6a. Why do you do it this way?</td>
</tr>
<tr>
<td></td>
<td></td>
<td>7a. Is the main use cooking? Do you use less if you have to walk further to collect it?</td>
</tr>
</tbody>
</table>

1a. If you do, where is it? Can you show it to me?
3a. Why/Why not?
4a. Why/Why not? What would they use if they do not have a latrine? Would community members share latrines?
5a. Can you explain how it is kept clean and safe?
6a. Can you show me?
7a. What would stop you from using it as fertiliser? Why?
HEALTH OF FAMILY AND COMMUNITY

» Current level of illness perceived within the community
» How they deal with sickness
» Facilities/infrastructure available for the community

<table>
<thead>
<tr>
<th>CONSTRUCT</th>
<th>QUESTION</th>
<th>PROBES</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH: Health of the community</td>
<td><strong>Thank you! I now would like to discuss the health of the community, and any health issues that you or your family have.</strong></td>
<td><strong>2a. If no, why not? Economics, distance, time? What stops you?</strong></td>
</tr>
<tr>
<td>1.</td>
<td><strong>Firstly, do you have access to a health clinic? Where is it? Is it free?</strong></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td><strong>Do you use the clinic when you or your family gets sick?</strong></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td><strong>Where do you get medicine from? Do you have to pay for it?</strong></td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td><strong>What are the main health issues for you? Your family? Your community? Does this change during different times of the year?</strong></td>
<td><strong>4a. If yes, why do you think that these issues would change?</strong></td>
</tr>
<tr>
<td>5.</td>
<td><strong>How often are your children sick? What are their symptoms?</strong></td>
<td></td>
</tr>
<tr>
<td>6.</td>
<td><strong>What makes them sick? What do you do with them when they are sick?</strong></td>
<td></td>
</tr>
<tr>
<td>7.</td>
<td><strong>How does your daily routine change when you have a sick family member?</strong></td>
<td></td>
</tr>
<tr>
<td>8.</td>
<td><strong>How often is your child sick from diarrhoea? Does it cause them to miss school? How often? Do you see this as a problem?</strong></td>
<td><strong>6a. Water? Food? Bugs? How do you know what makes them sick?</strong></td>
</tr>
<tr>
<td>9.</td>
<td><strong>How do you respond when your child is sick?</strong></td>
<td></td>
</tr>
<tr>
<td>10.</td>
<td><strong>How often in a month does your child have loose stools more than three times a day?</strong></td>
<td><strong>7a. Less time to do normal activities? Do you try to be more careful about sanitation when you/family are sick?</strong></td>
</tr>
<tr>
<td>11.</td>
<td><strong>How do you try to prevent diarrhoea? Other diseases?</strong></td>
<td></td>
</tr>
<tr>
<td>12.</td>
<td><strong>Do these preventions help?</strong></td>
<td><strong>8a. Why is this a problem?</strong></td>
</tr>
<tr>
<td>12a.</td>
<td><strong>If yes, how? If no, why do you think they do not help?</strong></td>
<td></td>
</tr>
<tr>
<td>CONSTRUCT</td>
<td>QUESTION</td>
<td>PROBES</td>
</tr>
<tr>
<td>-----------------------------------</td>
<td>----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
</tbody>
</table>
| EDUCATION AND SOLUTIONS           | Thank you. There is just one more area that I would like to discuss with you today. First I will ask about how you keep yourself and your family healthy, and then I will discuss what you would do about the problems in your community. | 1a. Was it your parents, media, elders, women’s group, church, teachers?  
2a. You? School programs?  
3s. Why/Why not? What stops community members from teaching each other?  
4s. If they don’t mention water, ask "what about the water, what would you do about it?" |
| » Amount of health education programs | 1. Who taught you how to be healthy?  
2. Who taught your children how to stay healthy? Did your children teach you anything about health that you didn’t know?  
3. What other things would you like to see in your community to help make you healthy? Do you think that community members can teach each other about health and health problems?  
4. If you were in charge of the community, how would you make sure the children/community stay healthy?  
5. What would you like to see done with the resources your community currently has?  
6. How do you think the community can make this happen? Where would you go for additional resources? |                                                                                                                                              |
| » Solutions that the community would like to see happen | Thank you very much for your time. Is there anything else you would like to tell me about your water and health in your community? Would you like to add or expand on anything that you put into your map? |                                                                                                                                              |
APPENDIX XI:

KAPE Community Meeting
Report Back Script

This script has been adapted from Levison (2013). This is an instrument that you may be able to use during a community meeting to deliver information about the information you have collected and to learn more about the community.

SCRIPT TEXT:

“Welcome and thanks (for attending; for providing the opportunity).

Why you are here (to share some of the things that peoples shared with you when you were in the community talking with them about things that were important to them).

Share the findings (this is what you told me OR this is what we talked about):
   » Water
   » Sanitation
   » Health
   » Education
   » Solutions

Final thanks and opportunity to ask questions and start a discussion.”

NOTE:

If there are issues raised through your findings, you may want to consider linking with other NGOs and/or government partners to explain and demonstrate some solutions which may help improve health and wellbeing.
## Example Key Informant Interview Questions

These interview questions have been adapted from Newton (2013).

### BACKGROUND
- What do you do for work?
- What are your responsibilities?
- For how long have you had this job?
- What is your connection to the community?
- Do you have any responsibilities within the community?
- If YES, what are they?
- If NO, do you have any responsibilities within another community?

### WATER ISSUES
- What are all the different water needs for the community?
- Which uses require the most water?
- Which use is most important?
- What would you say are the key water issues in this area?
- Are there any plans to solve any of these problems?
- What are they and what timeline is associated with them?
- What has been done to date?
- What obstacles have you encountered or do you expect to encounter?
- Are any of these goals or achievements written in any documents, plans, reports? If so, may we have a copy?
<table>
<thead>
<tr>
<th>DRINKING WATER AND SANITATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>In your experience, what are the success factors for water and sanitation development?</td>
</tr>
<tr>
<td>In your experience, what hinders community water resource development?</td>
</tr>
<tr>
<td>What is challenging about hygiene and sanitation improvement in the community?</td>
</tr>
<tr>
<td>Are there plans for hygiene and sanitation improvement? Yes  No</td>
</tr>
<tr>
<td>If yes… What are they? If no… Why not?</td>
</tr>
<tr>
<td>How does current legislation impact upon the work you are doing?</td>
</tr>
<tr>
<td>What are the implications for rural water supply and development?</td>
</tr>
<tr>
<td>How difficult is it to access financial support?</td>
</tr>
<tr>
<td>What sources of financial support are available?</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HEALTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>In your opinion, what are the health challenges facing this community?</td>
</tr>
<tr>
<td>What is being done to deal with them?</td>
</tr>
<tr>
<td>What do you see as the ideal solution?</td>
</tr>
</tbody>
</table>

| ANY OTHER THOUGHTS YOU WOULD LIKE TO SHARE |
Appendix C

KAPE Questionnaire Variations
INTRODUCTION AND INSTRUCTIONS:

Hello. I am ________________ and this is ________________ (translator/facilitator). Thank you for agreeing to participate in this questionnaire. Today I will ask you some general questions about yourself and your community. You do not have to answer any questions that you do not want to. We know you are very busy. Participation is your choice, and it is okay to say no. We do not have money to give you. Would you like to participate in the survey?

Was the participant informed?  
Please circle:  Yes  No

Is he/she willing to participate?  
Please circle:  Yes  No

Signature (Interviewer):  __________________________________________

Signature (Interviewee):  __________________________________________
GENERAL BACKGROUND

I would like to begin by asking you some general questions about you and your health care facility.

1. What service level is this health care facility?

_________________________________________________________________________________________________________

2. How many departments are in your facility?

_________________________________________________________________________________________________________

3. In total, how many staff are in your facility/department? (circle either facility or department)

_________________________________________________________________________________________________________

4. How many patients come to your facility per day?

_________________________________________________________________________________________________________

5. Are they usually accompanied by family members?

_________________________________________________________________________________________________________

6. What distance do patients travel to get to your facility?

_________________________________________________________________________________________________________

7. What is the basic fee for a clinic visit?

_________________________________________________________________________________________________________

8. What is the cost for an anti-natal visit?

_________________________________________________________________________________________________________

9. What is the cost for a delivery?

_________________________________________________________________________________________________________

10. What is the cost for a caesarian-section?

_________________________________________________________________________________________________________
11. What is your position?

_________________________________________________________________________________________________________

12. What is the highest level of education that you have?

_________________________________________________________________________________________________________

13. How long have you worked here?

_________________________________________________________________________________________________________

14. What are you proud of about your facility/department? (circle either facility or department)

_________________________________________________________________________________________________________

15. What are the major health challenges facing your patients right now?

_________________________________________________________________________________________________________

16. What are the major challenges facing your facility/department right now? (circle either facility or department)

_________________________________________________________________________________________________________

17. How are these challenges different from the challenges you’ve faced 5 years ago?

_________________________________________________________________________________________________________

18. How do you cope with these challenges?

_________________________________________________________________________________________________________

RECORD KEEPING

19. Do you chart records?  □ Yes  □ No

20. Who records the information?

_________________________________________________________________________________________________________

21. What data do you collect?
   (Prompt: births; deaths; HIV/AIDS; acute illnesses; pregnancy related complications)

_________________________________________________________________________________________________________
22. Are records reported out? □ Yes □ No

23. If yes, who reports them and to who?

__________________________________________________________________________

24. How do you access records of the patient’s prior visit(s) to the facility?

__________________________________________________________________________

25. Do you register births? □ Yes □ No

a) Do you record deaths? □ Yes □ No
b) Do you record neo-natal deaths? □ Yes □ No
c) Are they also registered as births? □ Yes □ No

MATERNAL/NEONATAL HEALTH INFORMATION

26. In general, how would you rate/describe the condition of your facility?

□ Very Good □ Good □ Moderate □ Bad □ Very Bad

27. In general, how would you rate/describe access to potable water at your facility?

□ Very Good □ Good □ Moderate □ Bad □ Very Bad

28. In general, how would you rate/describe access to sanitation at your facility?

□ Very Good □ Good □ Moderate □ Bad □ Very Bad

29. a) In general, how would you rate/describe the health of your incoming patients?

□ Very Good □ Good □ Moderate □ Bad □ Very Bad

b) What are the main health problems of incoming patients?
   (Prompt: malnutrition; anemia; acute illness — diarrhea, malaria; HIV/AIDS; pregnancy related complications)

30. What percentage of women coming for delivery have had any prenatal care?

__________________________________________________________________________
31. What percentage of women from your area do you think come to give birth rather than at home?

32. a) In general, how would you rate/describe the health of the babies when born?

   □ Very Good  □ Good  □ Moderate  □ Bad  □ Very Bad

b) What are the main health problems that the babies face?
   *(Prompt: premature; low birth weight; APCAR; jaundice; HIV/AIDS)*

33. What working equipment do you have in your facility/department? (circle either facility or department) Please fill in the chart below:

<table>
<thead>
<tr>
<th>EQUIPMENT</th>
<th>ALWAYS</th>
<th>SOMETIMES</th>
<th>NEVER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Delivery gloves with long sleeves</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Incubators (how many?)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Blood</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Drugs</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Beds</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ultrasound</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weighing scale for baby</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mosquito nets</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other (please indicate)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**WATER, SANITATION AND HYGIENE NEEDS**

Thank you. The next set of questions relates to current water and sanitation needs in your facility.

34. What are the main sources of water for staff in your facility/department? (circle either facility or department)

<table>
<thead>
<tr>
<th>SOURCE OF WATER</th>
<th>YES/NO</th>
<th>DISTANCE FROM THE FACILITY/DEPARTMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Piped water into each department</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Piped water into a central location</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Public tap/standpipe</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tubewell/borehole</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Protected dug well</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unprotected dug well</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Protected spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unprotected spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rainwater collection</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bottled water</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cart with small tank/drum</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tanker-truck</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Surface water (river, dam, lake, pond, stream, canal, irrigation channels)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other (specify)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
35. Have these water sources changed from the past? If so, how and why?

__________________________________________________________________________________________________________

36. What is the water used for?

(Prompt for different use of safe vs. unclean water for medical; hand washing; food preparation)

__________________________________________________________________________________________________________

37. Is the safe water accessible for patients and families?

☐ Yes  ☐ No  ☐ N/A

38. Is the water accessible for the local community?

☐ Yes  ☐ No  ☐ N/A

39. How many toilets are available for the following:

a) Facility

b) Each Department

c) Public

40. How many areas are available for bathing:

a) Patients

b) Babies

41. a) Do you have an infection control protocol?

☐ Yes  ☐ No

b) If yes, what are all the elements available to put the protocol into practice?

__________________________________________________________________________________________________________

c) If no, what elements are missing to put the protocol into practice?

__________________________________________________________________________________________________________

42. Do you have hand washing stations?

☐ Yes  ☐ No

43. How many hand washing stations are in your facility/department? (circle either facility or department)

__________________________________________________________________________________________________________
44. How often do they have clean water?

☐ Always  ☐ Mostly  ☐ Sometimes  ☐ Rarely  ☐ Never

45. Do the hand washing stations have soap?

☐ Always  ☐ Sometimes  ☐ Never

46. Do you use non-water based hand washing? Please circle:

☐ Yes  ☐ No

If yes, please describe: ____________________________

47. How would you describe hygiene in the facility/department? (circle either facility or department)

☐ Very Good  ☐ Good  ☐ Moderate  ☐ Bad  ☐ Very Bad

48. a) Do you think hygiene impacts on the health of the patients?

☐ Yes  ☐ No

If so how? ______________________________________

b) Does the level of access to water and sanitation impact on this?

☐ Yes  ☐ No

If so how? ______________________________________

49. a) Do you think hygiene impacts on the health of the staff?

☐ Yes  ☐ No

If so how? ______________________________________

b) Does the level of access to water and sanitation impact on this?

☐ Yes  ☐ No

If so how? ______________________________________

50. In your experience, can you please tell me some of the things (programs or activities) that your facility/department does to promote health, safe drinking water and/or sanitation? (circle either facility or department)

______________________________________________________________________________

51. Do you feel that these things (programs or activities) are effective in promoting health, safe drinking water and/or sanitation? Why or why not?

______________________________________________________________________________

52. What do you see as the biggest accomplishment your facility/department has made in improving access to water and/or sanitation? (circle either facility or department)

______________________________________________________________________________
53. What do you see as the most important priority for your department/facility as you seek to improve access to water and sanitation? (Prompt: why is this important?)

CONCLUSION

Thank you so much for your time and contributions. This is the end of our questions, but we would still welcome any additional comments, ideas, or concerns that you have. Is there anything we forgot or anything you would like to add?
INTRODUCTION AND INSTRUCTIONS:

Hello. I am ______________________ and this is ______________________ (translator/facilitator). Thank you for agreeing to participate in this questionnaire. Today I will ask you some general questions about yourself and your community. You do not have to answer any questions that you do not want to. We know you are very busy. Participation is your choice, and it is okay to say no. We do not have money to give you. Would you like to participate in the survey?

Was the participant informed?  
Is he/she willing to participate?  

Please circle:  

<table>
<thead>
<tr>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
</table>

*Signature (Interviewer):*  
________________________________________________________________________

*Signature (Interviewee):*  
________________________________________________________________________
GENERAL BACKGROUND

I would like to begin by asking you some general questions about you and your household.

1. How many people live in your household?

2. How many children who live in your household are <1 years of age?

3. How many children who live in your household are between 1 and 5 years of age?

4. How many children who live in your household are between 5 and 16 years of age?

5. How many of your children go to school?

6. a) Have you been to school? ☐ Yes ☐ No

   b) If yes, how far did you go in school?

      ☐ Some primary
      ☐ Complete primary
      ☐ Some secondary
      ☐ Complete secondary
      ☐ Beyond secondary

7. What do you do for work?

   ______________________________________

8. How long have you had this job?

   ______________________________________

9. Were you born in the city/village/tribe where you currently live?

   ☐ Yes ☐ No ☐ Don’t Know

10. How long have you lived here?

    ______________________________________
COMMUNITY AND HOME HEALTH INFORMATION

11. In general, how would you rate/describe the health of your community?

☐ Very Good  ☐ Good  ☐ Moderate  ☐ Bad  ☐ Very Bad

12. In general, how would you rate/describe your family’s health?

☐ Very Good  ☐ Good  ☐ Moderate  ☐ Bad  ☐ Very Bad

13. In general, how would you rate/describe the health of your children <1 years of age?

☐ Very Good  ☐ Good  ☐ Moderate  ☐ Bad  ☐ Very Bad

14. In general, how would you rate/describe the health of your children between 1 and 5 years of age?

☐ Very Good  ☐ Good  ☐ Moderate  ☐ Bad  ☐ Very Bad

15. In general, how would you rate/describe the health of your children between 5 and 16 years of age?

☐ Very Good  ☐ Good  ☐ Moderate  ☐ Bad  ☐ Very Bad

16. What are the main health problems in your community face?

(Prompts: pregnancy, diarrhea, fever)

__________________________________________________________________________________________________________

17. What are the main health problems that your children and other children in your community face?

(Prompts: diarrhea, fever, rash)

__________________________________________________________________________________________________________

18. a) Have any of your household members, including children, have suffered from diarrhea in the past 2 weeks?

Diarrhoea is defined as the passage of 3 or more loose or liquid stools per day, or more frequently than is normal for the individual.

☐ Yes  ☐ No

b) If yes, how many?


c) If yes, how many were children < 5 years of age?


d) Please fill in the following table:

<table>
<thead>
<tr>
<th>CHILD #</th>
<th>AGE</th>
<th>TREATMENT FOR DIARRHEA (Yes, No or DK)</th>
<th>WHAT KIND OF TREATMENT? [traditional medicine/healer; buy medicine from pharmacy/kiosk; visit the health care/doctor; other (specify)]</th>
<th>HAS YOUR CHILD HAD ANY OTHER ILLNESSES? (Yes, No, DK) If yes, please explain.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Child #1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Child #2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Child #3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Child #4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Child #5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

19. From whom do you learn about health information, such as ways to keep your children healthy or ways to ensure that you are healthy and can work?
(Prompt: health practitioner, public information, NGO, relative)?
________________________________________________________________________________________________________

20. From whom would you prefer to learn about health information?
(Prompt: head mama, women’s group leader, public health nurse, someone from outside the community)
________________________________________________________________________________________________________

21. How regularly, to the best of your knowledge, do your neighbours use soap? If they do use soap, what do they use it for?
(Prompt: dish washing, laundry, hand washing, bathing)
________________________________________________________________________________________________________

22. Do you regularly use soap?  
- ☐ Yes  
- ☐ No  
- ☐ Don’t Know

a) If yes, what do you use it for?
(Prompts: dish washing, laundry, hand washing, bathing)
________________________________________________________________________________________________________

b) If no, why not?
________________________________________________________________________________________________________
I would like to ask you a few questions about how children in your household use soap for hand washing.

23. Please indicate in the following chart how often and when your children <5 years of age use soap for hand washing at the following times.

<table>
<thead>
<tr>
<th>ACTIVITY</th>
<th>NEVER</th>
<th>RARELY</th>
<th>SOMETIMES</th>
<th>MOSTLY</th>
<th>ALWAYS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Before eating</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>After eating</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Before cooking</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>After urinating</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>After defecating</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Before sleeping</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upon waking</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>When hands are dirty</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>When bathing</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other (specify)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

24. a) Do you currently have a cake of soap in your home?

- [ ] Yes
- [ ] No
- [ ] Don’t Know

b) If so, where do you keep it?

________________________________________________________________________________________________________________________________________________________________________

25. a) Do you currently have liquid soap for handwashing in your home?

- [ ] Yes
- [ ] No
- [ ] Don’t Know

b) If so, where do you keep it?

________________________________________________________________________________________________________________________________________________________________________
HEALTH CARE FACILITY

26. How long does it take you to get to the closest health care provider?

__________________________________________________________________________________________________________

27. How long have you used this health care provider?

__________________________________________________________________________________________________________

28. What have you used this health care provider for?

(Prompt: anemia; acute illnesses; prenatal care; pregnancy related complications; HIV/AIDS)

__________________________________________________________________________________________________________

29. What health care providers have you see in the past year? (Prompts: physician, nurse, traditional healer, herbalist)

__________________________________________________________________________________________________________

30. Do the health care professionals record the information from your visit?

□ Yes □ No

31. What information do the health care professionals ask you for?

__________________________________________________________________________________________________________

32. In general, how would you rate/describe the condition of this facility and why?

□ Very Good □ Good □ Moderate □ Bad □ Very Bad

Please explain: ________________________________________________________________

33. In general, how would you rate/describe the services of this facility and why?

□ Very Good □ Good □ Moderate □ Bad □ Very Bad

Please explain: ________________________________________________________________

34. What additional services do you think should be provided?

__________________________________________________________________________________________________________
MATERNAL/NEONATAL HEALTH INFORMATION

35. a) Have you used this health care facility for prenatal care in your last pregnancy?

☐ Yes ☐ No

b) Why or why not?

If yes was answered for Question 34, please answer the following. Otherwise go to Question 41.

36. a) What care did you receive?

__________________________________________________________________________________________________________

b) Why or why not?

__________________________________________________________________________________________________________

37. How would you rate this care?

☐ Very Good ☐ Good ☐ Moderate ☐ Bad ☐ Very Bad

38. In general, how would you rate/describe the health of your baby when born?

☐ Very Good ☐ Good ☐ Moderate ☐ Bad ☐ Very Bad

39. a) Do you think that most women in your community use the health care facility for prenatal care?

☐ Yes ☐ No

b) Why or why not?

__________________________________________________________________________________________________________

40. What percentage of women do you think come to give birth here at the facility rather than at home?

__________________________________________________________________________________________________________

41. Why do you think that women choose to give birth at home instead of at the clinic?

__________________________________________________________________________________________________________
WATER, SANITATION, AND HYGIENE AT HEALTH CARE FACILITY

42. What are the main sources of water at this health care facility?

<table>
<thead>
<tr>
<th>SOURCE OF WATER</th>
<th>YES/NO</th>
<th>DISTANCE FROM THE FACILITY/DEPARTMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Piped water into each department</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Piped water into a central location</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Public tap/standpipe</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tubewell/borehole</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Protected dug well</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unprotected dug well</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Protected spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unprotected spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rainwater collection</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bottled water</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cart with small tank/drum</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tanker-truck</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Surface water</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(river, dam, lake, pond, stream, canal, irrigation channels)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other (specify)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

43. Have these water sources changed from the past? If so, how and why?

__________________________________________________________________________________________________________

44. What is the water used for?

(Prompts: medical; hand washing; food preparation)

__________________________________________________________________________________________________________

45. Is safe water accessible for patients and families? □ Yes □ No

46. Is safe water accessible for the local community? □ Yes □ No

47. Are there hand washing stations at the health care facility? □ Yes □ No

48. How often do they have running water?

□ Very Good □ Good □ Moderate □ Bad □ Very Bad
49. Do the hand washing stations have soap?

☐ Always  ☐ Mostly  ☐ Sometimes  ☐ Rarely  ☐ Never

50. a) Does the health care facility use non-water based hand washing?  ☐ Yes  ☐ No

If yes, please describe:

b) How would you describe hygiene at the health care facility?

☐ Very Good  ☐ Good  ☐ Moderate  ☐ Bad  ☐ Very Bad

51. a) Do you think hygiene impacts on the health of the patients?  ☐ Yes  ☐ No

If so, how?

b) Does the level of access to water and sanitation affect hygiene?  ☐ Yes  ☐ No

If so how?

52. a) Do you think hygiene is import to the health of the staff?  ☐ Yes  ☐ No

If so how?

b) Does the level of access to water and sanitation affect the health of staff on this?  ☐ Yes  ☐ No

If so how?
LOCAL PERCEPTIONS AND BEHAVIOURS RELATED TO WATER AND HEALTH

53. Where do you get information from on health, water, and sanitation?
   (Prompt: medical practitioners, community resource persons, child in school, radio/TV, newspapers, community meetings, posters, neighbours, aid workers, religious leaders)

54. Have you ever received any information regarding diarrhea?
   □ Yes    □ No    □ Don’t Know

   If yes, what was the source of the information?
   (Prompt: medical practitioners, community resource persons, child in school, radio/TV, newspapers, community meetings, posters, religious leaders, neighbor)

55. Has your child/children received any teachings about diarrhea at school?
   □ Yes    □ No    □ Don’t Know

56. What did they learn about preventing diarrhoea?
   (Prompt: treat drinking water; wash hands after visiting the latrine; wash hands before eating; use the latrine)

57. Do you know what causes diarrhoea?
   (Prompt: drinking Bad water; eating Bad food; flies/insects; poor hygiene; spirits/curse/Bad omen)

58. How can you prevent you or your family from getting sick/diarrhoea?
   (Prompt: cannot prevent; herbs; wash hands; cook food thoroughly; boil and treat water; clean cooking utensils/vessels)

CONCLUSION

Thank you so much for your time and contributions. This is the end of our questions, but we would still welcome any additional comments, ideas, or concerns that you have. Is there anything we forgot or anything you would like to add?
INTRODUCTION AND INSTRUCTIONS:

Hello. I am ______________________ and this is ______________________ (translator/facilitator). Thank you for agreeing to participate in this questionnaire. Today I will ask you some general questions about yourself and your community. You do not have to answer any questions that you do not want to. We know you are very busy. Participation is your choice, and it is okay to say no. We do not have money to give you. Would you like to participate in the survey?

Was the participant informed?  Please circle:  Yes  No
Is he/she willing to participate?  Please circle:  Yes  No

Signature (Interviewer): ________________________________________________

Signature (Interviewee): ________________________________________________
GENERAL BACKGROUND

I would like to begin by asking you some general questions about you and your community.

1. *How many people live in your community?  
2. *How many households are in your community?  
3. *How many of the people are children are <16 years of age?  
4. *How many children in your community are <5 years of age?  
5. *How many schools are in your community?  
6. *How many people are educated? What is the highest level of education?  
   ____________________________________________________________________________________________  
7. *What types of jobs are available in your community?  
   ____________________________________________________________________________________________  
8. What do you estimate is the average daily income in your community?  
   ____________________________________________________________________________________________  
9. What do you do for work?  
   ____________________________________________________________________________________________  
10. How long have you lived here in your community?  
    ____________________________________________________________________________________________  
11. What are you proud of about your community?  
    ____________________________________________________________________________________________  
12. You have been identified as a respected leader in this community.  
    a) How long have you had this job?  
    ____________________________________________________________________________________________  
    b) What is your role in this community?  
    ____________________________________________________________________________________________
c) How are you involved in community activities?

13. Who are the vulnerable people in your community?

14. What are the major challenges facing your community right now?

15. How are these challenges different from the challenges you’ve faced in the past?

16. How does the community cope with these challenges?

COMMUNITY HEALTH INFORMATION

Through these questions, we hope that your community can begin to understand the health concerns of you and your children. These questions will help us to work with you in achieving your community’s goals.

17. a) *In general, how would you rate the health of your community?

☐ Very Good  ☐ Good  ☐ Moderate  ☐ Bad  ☐ Very Bad

b) *What are the main health problems that people in your community face?

18. a) *In general, how would you rate the health of men in your community?

☐ Very Good  ☐ Good  ☐ Moderate  ☐ Bad  ☐ Very Bad

b) *What are the main health problems that men in your community face?

19. a) *In general, how would you rate the health of women in your community?

☐ Very Good  ☐ Good  ☐ Moderate  ☐ Bad  ☐ Very Bad
b) *What are the main health problems that women in your community face?*

__________________________________________________________________________________________________________

20. a) *In general, how would you rate the health of your children <5 years of age?*

- □ Very Good  □ Good  □ Moderate  □ Bad  □ Very Bad

b) *What are the main health problems that children <5 years of age in your community face?*

__________________________________________________________________________________________________________

21. *What are the main causes of health problems in your community?*

__________________________________________________________________________________________________________

22. a) Where is the closest health care provider?

__________________________________________________________________________________________________________

b) What services do they provide?

__________________________________________________________________________________________________________

**HEALTH, WATER AND SANITATION NEEDS**

Thank you. The next set of questions relates to current water and sanitation needs in your community.

23. *What are the main sources of drinking water for members in your community?*

<table>
<thead>
<tr>
<th>SOURCE OF WATER</th>
<th>YES/NO</th>
<th># OF COMMUNITY MEMBERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Piped water into a dwelling</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Piped water into a yard/plot</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Public tap/standpipe</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tubewell/borehole</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Protected dug well</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unprotected dug well</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Protected spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unprotected spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rainwater collection</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bottled water</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cart with small tank/drum</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tanker-truck</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Surface water (river, dam, lake, pond, stream, canal, irrigation channels)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other (specify)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
24. Have these water sources changed from the past? If so, how and why?

_________________________________________________________________________________________________________

25. What uses the most water in your community

(Prompt: crops, Animals, drinking water for people)

_________________________________________________________________________________________________________

26. *What is the priority water use in your community?

_________________________________________________________________________________________________________

27. In your opinion, what are the main factors that determine whether families have access to safe water in your community?

(Prompt: wealth, location in village, position of power)

_________________________________________________________________________________________________________

28. a) How would you rate any current community sanitation and toilet facilities in this area?

☐ Very Good  ☐ Good  ☐ Moderate  ☐ Bad  ☐ Very Bad

b) Please describe these facilities:

_________________________________________________________________________________________________________

29. In your opinion, what are the main factors that determine whether families have access to sanitation in your community?

_________________________________________________________________________________________________________

30. *Please rate your community on the following statements:

(1 = strongly disagree, 2 = disagree, 3 = neutral, 4 = Moderately agree, 5 = strongly agree)

a) Community members are interested in becoming involved in water related issues

b) Community members are aware about water related issues in your community

c) Community members have knowledge about water related issues in your community

31. In your experience, can you please tell me some of the things (programs or activities) that your community does to promote health, safe drinking water and/or sanitation?

_________________________________________________________________________________________________________
32. Do you feel that these things (programs or activities) are effective in promoting health, safe drinking water and/or sanitation? Why or why not?

_________________________________________________________________________________________________________

33. What do you see as the biggest accomplishment your community has made in improving access to water and/or sanitation?

_________________________________________________________________________________________________________

34. What do you see as the most important priority for your community as you seek to improve access to water and sanitation? (Prompt: why is this important?)

_________________________________________________________________________________________________________

SANITATION AND ENERGY NEEDS: BEHAVIORS AND PERCEPTIONS

35. Please rank (hi, medium or low) the current energy sources in your community:

<table>
<thead>
<tr>
<th></th>
<th>USE (Hi/Med/Low)</th>
<th>AVAILABILITY (Hi/Med/Low)</th>
<th>PURPOSE (Hi/Med/Low)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Charcoal</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Firewood</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electricity</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Natural gas</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kerosene</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

36. a) Have you ever heard of anaerobic digestion and its by-products (Biogas, sludge pellets, etc.)?

☐ Yes    ☐ No

b) If yes, what was the source of this information?

_________________________________________________________________________________________________________

37. In your opinion, what do you think are some of the preconceived perceptions your community has about the use of human waste by-products as fertiliser?

_________________________________________________________________________________________________________

38. In your opinion, what do you think are some of the preconceived perceptions your community has about the use of treated human waste by-products (i.e., fuel pellets or briquettes) as a fuel resource in domestic settings?

_________________________________________________________________________________________________________
39. In your opinion, what do you think are some of the preconceived perceptions your community has about the use of biogas from human waste by-products for lighting?

_________________________________________________________________________________________________________

40. In your opinion, what do you think are some of the preconceived perceptions your community has about the use of biogas from human waste by-products for cooking?

_________________________________________________________________________________________________________

41. Would you promote the use of the human waste by-products (Biogas, sludge pellets) as a source of domestic fuel in your community if it proved to be (choose all that apply):

- Cheaper than your current source of energy
- More efficient than the currently popular energy sources
- Better for trees, the environment in general, sustainable
- Meant improved sanitation facilities for your community
- Safe and not harmful to health
- Easy to use and time efficient
- The norm/popular
- Provided an income source to improve water and sanitation access for your community

If not, why not?

_________________________________________________________________________________________________________

42. What information would you need to change your mind?

_________________________________________________________________________________________________________

43. Would you support the introduction of community anaerobic digestion toilet facilities?

- Yes
- No

If not, why not?

_________________________________________________________________________________________________________

CONCLUSION

Thank you so much for your time and contributions. This is the end of our questions, but we would still welcome any additional comments, ideas, or concerns that you have. Is there anything we forgot or anything you would like to add?
APPENDIX XVI:

KAPE Questionnaire Variations:
Anaerobic Digestion (Community Member)

INTRODUCTION AND INSTRUCTIONS:

Hello. I am ______________________ and this is ______________________ (translator/facilitator). Thank you for agreeing to participate in this questionnaire. Today I will ask you some general questions about yourself and your community. You do not have to answer any questions that you do not want to. We know you are very busy. Participation is your choice, and it is okay to say no. We do not have money to give you. Would you like to participate in the survey?

Was the participant informed?  Please circle:  Yes  No
Is he/she willing to participate?  Please circle:  Yes  No

Signature (Interviewer):  ___________________________________________

Signature (Interviewee):  ___________________________________________
GENERAL BACKGROUND

I would like to begin by asking you some general questions about you and your community.

1. *How many people live in your household?  
2. *How many of the people who live in your household are children <16 years of age?  
3. *How many children who live in your household are <5 years of age?  
4. *How many of your children go to school?  
5. *Have you been to school? (If so: how far did you go in school?)  
6. *What do you do for work?  

7. *How long have you had this job?  

8. *Were you born in the city/village/tribe where you currently live?  
   □ Yes □ No □ Don’t Know  

9. *How long have you lived here?  

10. *What are you proud of about your community?  

11. *What are the major challenges facing your community right now?  

12. *How are these challenges different from the challenges you’ve faced in the past?  

13. *How does the community cope with these challenges?
14. *What do you estimate is the average daily income in your community?

_________________________________________________________________________________________________________

15. *Based on this average daily income estimation in your community, would you rank your household income as:

   ☐ Above Average    ☐ Average    ☐ Below Average

COMMUNITY HEALTH INFORMATION

Through these questions, we hope that your community can begin to understand the health concerns of you and your children. These questions will help us to work with you in achieving your community’s goals.

16. *In general, how would you rate the health of your community?

   ☐ Very Good    ☐ Good    ☐ Moderate    ☐ Bad    ☐ Very Bad

17. *In general, how would you rate your family’s health?

   ☐ Very Good    ☐ Good    ☐ Moderate    ☐ Bad    ☐ Very Bad

18. *In general, how would you rate the health of your children <5 years of age?

   ☐ Very Good    ☐ Good    ☐ Moderate    ☐ Bad    ☐ Very Bad

19. *What are the main health problems that people in your community face?

_________________________________________________________________________________________________________

20. *What are the main health problems that your children and other children in your community face?

_________________________________________________________________________________________________________

21. *What are the main causes of health problems in your community?

_________________________________________________________________________________________________________

22. *How long does it take you to get to the closest health care provider?

_________________________________________________________________________________________________________

23. *Have any of your children below 5 years suffered from diarrhea in the past 2 weeks?

   Note: diarrhea is defined as the passage of 3 or more loose or liquid stools per day, or more frequently than is normal for the individual

   ☐ Yes    ☐ No
24. Fill in the following table:

<table>
<thead>
<tr>
<th>CHILD</th>
<th>AGE</th>
<th>TREATMENT FOR DIARRHEA (Yes, No or DK)</th>
<th>WHAT KIND OF TREATMENT? [traditional medicine/healer; buy medicine from pharmacy/kiosk; visit the health care/doctor; other (specify)]</th>
<th>HAS YOUR CHILD HAD ANY OTHER ILLNESSES? (Yes, No, DK) If yes, please explain</th>
</tr>
</thead>
<tbody>
<tr>
<td>Child #1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Child #2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Child #3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Child #4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Child #5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

WATER NEEDS

Thank you. The next set of questions relates to current water and sanitation needs in your community.

25. *What are the main sources of drinking water for members in your household?*

<table>
<thead>
<tr>
<th>SOURCE OF WATER</th>
<th>CHECK Yes OR No</th>
<th>FREQUENCY (# of times per week)</th>
<th>USED IN DRY OR WET SEASON (Check which apply)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Piped water into a dwelling</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Piped water into a yard/plot</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Public tap/standpipe</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tubewell/borehole</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Protected dug well</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unprotected dug well</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Protected spring</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unprotected spring</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rainwater collection</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bottled water</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cart with small tank/drum</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tanker-truck</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Surface water (river, dam, lake, pond, stream, canal, irrigation channels)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other (specify)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
26. *Have these water sources changed from the past? If so, how and why?

_________________________________________________________________________________________________________

27. *What is the main source of water used by your household for other purposes, such as cooking and hand washing etc.?

<table>
<thead>
<tr>
<th>SOURCE OF WATER</th>
<th>YES/NO</th>
<th>FREQUENCY (# OF TIMES PER WEEK)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Piped water into a dwelling</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Piped water into a yard/plot</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Public tap/standpipe</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tubewell/borehole</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Protected dug well</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unprotected dug well</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Protected spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unprotected spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rainwater collection</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bottled water</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cart with small tank/drum</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tanker-truck</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Surface water (river, dam, lake, pond, stream, canal, irrigation channels)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other (specify)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

28. *Who has the major responsibility for water collection for your household?

☐ Adult woman
☐ Adult man
☐ Female child (<15 years)
☐ Male child (<15 years)
☐ Don’t know

29. *How long does it take one person to go to your water source, get water, and come back?

_________________________________________________________________________________________________________

30. a) *How many trips round trips are made in total by your family each day to collect water? [ ]

b) *How many people make these trips? [ ]

31. *What uses the most water in your community?

_________________________________________________________________________________________________________

32. *What is the priority water use in your household?

_________________________________________________________________________________________________________
33. a) *How do you know when the water you use is clean and/or safe?

_________________________________________________________________________________________________________

34. *If it is not clean and/or safe, what things have you done to try to deal with it?

_________________________________________________________________________________________________________

35. *Do you treat your water in any way to make it safer to drink?

☐ Yes    ☐ No    ☐ Don't Know

36. a) *What do you usually do to the water to make it safer to drink?

(Prompts: boil; add bleach/chlorine; strain it through a cloth; use a water filter; solar disinfection; let it stand and settle)

_________________________________________________________________________________________________________

b) *Why do you treat it?

_________________________________________________________________________________________________________

37. *In your opinion, what are the main factors that determine whether families have access to safe water in your community?

(Prompt: wealth, location in village, position of power)

_________________________________________________________________________________________________________

38. In your opinion, what are the main factors that determine whether families have access to sanitation in your community?

_________________________________________________________________________________________________________

39. Are you currently a member of an environmental, conservation or watershed organisation?

☐ Yes    ☐ No    ☐ Don't Know

40. Please rate yourself on the following statements:

(1 = strongly disagree, 2 = disagree, 3 = neutral, 4 = Moderately agree, 5 = strongly agree)

a) I am interested in becoming involved in water related issues

b) I am aware about water related issues in my community

c) I have knowledge about water related issues in my community
41. How much do you agree with the following statements:
(1 = strongly disagree, 2 = disagree, 3 = neutral, 4 = Moderately agree, 5 = strongly agree)

a) My community is a place that I feel a strong connection with

b) My community is a place that I care a lot about

c) There are places in my community that are special to me

d) Community members have an emotional and physical bond with our community

e) My community has a sense of togetherness

f) Mistrust/suspicion of others is an issue in my community

SANITATION

Thank you. Now we have a few questions about sanitation in your community.

42. a) *Where does your family most often go to the toilet?

_________________________________________________________________________________________________________

b) How far is this away from where you collect water?

_________________________________________________________________________________________________________

43. *If applicable, what kind of toilet facility do members of your household use?

☐ flush/pour flush to:
  ☐ piped sewer system
  ☐ septic tank
  ☐ pit latrine
  ☐ elsewhere
  ☐ unknown place/not sure/DK where
  ☐ ventilated improved pit latrine
  ☐ pit latrine with slab
  ☐ pit latrine without slab/open pit
  ☐ composting toilet
  ☐ bucket
  ☐ hanging toilet/hanging latrine
  ☐ other (specify)

44. *Where do your young children <5 years of age go to the toilet?

_________________________________________________________________________________________________________
45. a) *Do you share this facility with other households? 
   □ Yes □ No □ Don’t Know 
   b) *If so, how many households use/share this toilet facility? 

46. *If you don’t share these facilities, would you be willing to share toilet facilities? 
   □ Yes □ No □ Don’t Know 

47. *In general, how would you rate your sanitation and toilet facilities? 
   □ Very Good □ Good □ Moderate □ Bad □ Very Bad 

48. Briefly describe your ideal sanitation toilet facility 

49. a) Do you own your current sanitation/toilet facilities? □ Yes □ No 
   b) If yes, how did you acquire them? 
      (Prompt: Paid cash, loan, donated by NGO (give specific name), government, family etc.) 

50. What estimated percentage of your income would you say goes to sanitation management and use?
51. Would you be willing to pay for improved alternative sanitation facilities/toilet facilities?
   (Improved meaning: septic tank? flushing? shared? Described ideal sanitation toilet facility?)
   □ Yes    □ No

52. If yes, what percentage of your income would you put towards this sanitation facility?

53. Would you pay for the construction of this facility?
   □ Yes    □ No

54. Would you pay for maintenance of these facilities?
   □ Yes    □ No

55. Would you prefer to own the facility or pay for every use?
   □ Own    □ Pay

56. a) If you would pay for use, how much would you be willing to pay?

   Per Use: ____________________________
   Per Month: ____________________________

   b) If no, why not?
      (Prompts for financial barriers? Convenient toilet facility alternatives already present? Never thought about it before)

57. Would you use a community toilet facility, if:
   □ The facility was free
   □ If the facility was free for children
   □ The facility was shared
   □ If you received human waste by-products back such as fertiliser or fuel briquettes

58. Please describe your ideal shared community toilet facilities:
   (Prompt: distance; shower facilities; hand washing facilities; lighting for safety at night; would you use it at night)
HEALTH AND HYGIENE

59. *From whom do you learn about health information, such as ways to keep your children healthy or ways to ensure that you are healthy and can work?

_________________________________________________________________________________________________________

60. *From whom would you prefer to learn about health information?
   (Prompts: head mama, women’s group leader, public health nurse, someone from outside the community)

_________________________________________________________________________________________________________

61. *How regularly, to the best of your knowledge, do your neighbors use soap? If they do use soap, what do they use it for?
   (Prompts: dish washing, laundry, hand washing, bathing)

_________________________________________________________________________________________________________

62. a) *Do your children <5 years of age use soap for hand washing?
   □ Yes □ No □ Don’t Know
   b) If yes, how often? Please circle:
      □ Never □ Rarely □ Sometimes □ Mostly □ Always

63. *When do your children <5 years of age wash their hands? Please circle all that apply:
      □ Before eating
      □ After eating
      □ Before cooking
      □ After toilet
      □ Before sleeping
      □ Upon waking
      □ When hands are dirty
      □ When bathing
      □ Other (specify)

_________________________________________________________________________________________________________

64. a) *Do you currently have a cake of soap on the premises?
   □ Yes □ No □ Don’t Know
   b) If so, where do you keep it?

_________________________________________________________________________________________________________
LOCAL PERCEPTIONS AND BEHAVIORS RELATED TO WATER AND HEALTH

65. *Where do you get information from on health, water and sanitation, water? Please check all that apply:

- Medical practitioners
- Community resource persons
- Child in school
- Radio/TV
- Newspapers
- Community meetings/chief’s barazas
- Posters
- Neighbor/family/friends
- Other (specify)

66. Have you ever received any information regarding diarrhea?

- Yes
- No
- Don’t Know

67. What was the source of the information? Please check all that apply:

- Medical practitioners
- Community resource persons
- Child in school
- Radio/TV
- Newspapers
- Community meetings/chief’s barazas
- Posters
- Neighbor/family/friends
- Other (specify)

68. Has your child/children received any teachings about diarrhea at school?

- Yes
- No
- Don’t Know

69. What did they learn about preventing diarrhea?

(Prompts: treat drinking water; wash hands after visiting the latrine; wash hands before eating; use the latrine)
70. Do you know what causes diarrhea?
(Prompts: drinking Bad water; eating Bad food; flies/insects; poor hygiene; spirits/curse/Bad omen)

71. How can you prevent you or your family from getting sick/diarrhea?
(Prompts: cannot prevent; herbs; wash hands; cook food thoroughly; boil and treat water; clean cooking utensils/vessels)

ENERGY AND FUEL NEEDS: BEHAVIORS AND PERCEPTIONS

Thank you. The next set of questions relates to current energy and fuel needs in your community.

72. Are you using any of the following energy sources for your household’s daily domestic needs?  
(Needs such as cooking, light, heat, electricity, etc. as applicable)

<table>
<thead>
<tr>
<th>ENERGY SOURCE</th>
<th>USE OF ENERGY (e.g. for cooking, light, heat, electricity)</th>
<th>DURATION OF USE OF ENERGY SOURCE (# of hours per day)</th>
<th>AMOUNT OF ENERGY REQUIRED WEEKLY (units/week)</th>
<th>COST OF ENERGY SOURCE (approx. % of income)</th>
<th>DISTANCE/ TIME NEEDED TO COLLECT ENERGY SOURCE (KM/hours)</th>
<th>YES/NO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Firewood</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Charcoal</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electricity (grid)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Solar</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Natural gas</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kerosene</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

73. In general, how satisfied are you with your current energy sources for domestic purposes?
☐ Very satisfied ☐ Satisfied ☐ Neutral ☐ Dissatisfied ☐ Very Dissatisfied

74. Briefly describe any health concerns you have about your current energy sources.
75. In your opinion, what do you think are some of the preconceived perceptions your community has about the use of human waste by-products as fertiliser?

_________________________________________________________________________________________________________

76. In your opinion, what do you think are some of the preconceived perceptions your community has about the use of treated human waste by-products (i.e., fuel pellets or briquettes) as a fuel resource in domestic settings?

_________________________________________________________________________________________________________

77. In your opinion, what do you think are some of the preconceived perceptions your community has about the use of biogas from human waste by-products for lighting?

_________________________________________________________________________________________________________

78. In your opinion, what do you think are some of the preconceived perceptions your community has about the use of biogas from human waste by-products for cooking?

_________________________________________________________________________________________________________

79. Would you use treated sludge pellets/briquettes made from human waste as an alternative source of fuel and energy for domestic purposes?

☐ Yes ☐ No

80. Why or why not?
(Prompts: personal preferences; cleanliness; fear of diseases; financial barriers; lack of information)

_________________________________________________________________________________________________________

81. Would you use biogas made from human waste as an alternative source of fuel and energy for domestic purposes?

☐ Yes ☐ No

82. Why or why not?
(Prompts: personal preferences; cleanliness; fear of diseases; financial barriers; lack of information)

_________________________________________________________________________________________________________

83. Would you engage in the production of these by-products for a living?

_________________________________________________________________________________________________________
84. Would you be willing to make the switch to using human waste biogas and products as a source of domestic fuel if it proved to be (choose all that apply):

- ☐ Cheaper than your current source of energy - (If so, how much cheaper?)
- ☐ More efficient than your current energy source
- ☐ Better for trees, the environment in general, sustainable
- ☐ Meant improved sanitation facilities for your community
- ☐ Safe and not harmful to your health
- ☐ Easy to use and time efficient
- ☐ The norm/popular

a) If not, why not?

85. What information would you need to change your mind?

_________________________________________________________________________________________________________

86. Have you ever received any information regarding anaerobic digestion?

- ☐ Yes          - ☐ No          - ☐ Don’t Know

87. What was the source of this information?

_________________________________________________________________________________________________________

88. Are you interested in any additional information?

_________________________________________________________________________________________________________

CONCLUSION

Thank you so much for your time and contributions. This is the end of our questions, but we would still welcome any additional comments, ideas, or concerns that you have. Is there anything we forgot or anything you would like to add?
APPENDIX XVII:

KAPE Questionnaire Variations:
Post Disaster Transitioning (Community Leader)

INTRODUCTION AND INSTRUCTIONS:

Hello. I am ______________________ and this is ______________________ (translator/facilitator). Thank you for agreeing to participate in this questionnaire. Today I will ask you some general questions about yourself and your community. You do not have to answer any questions that you do not want to. We know you are very busy. Participation is your choice, and it is okay to say no. We do not have money to give you. Would you like to participate in the survey?

Was the participant informed?  Please circle:  Yes  No
Is he/she willing to participate?  Please circle:  Yes  No

Signature (Interviewer):  ___________________________________________
Signature (Interviewee):  ___________________________________________
Gender:  ___________________________________________
Age:  ___________________________________________
GENERAL BACKGROUND

I would like to begin by asking you some general questions about you and your community.

1. How many people live in your community?
2. How many households are in your community?
3. How many men in your community?
4. How many women in your community?
5. How many of the people are children are <16 years of age?
6. How many children in your community are <5 years of age?
7. How many schools are in your community?
8. What is the highest level of education?

_________________________________________________________________________________________________________

9. What types of jobs are available in your community?

_________________________________________________________________________________________________________

10. What do you do for work?

_________________________________________________________________________________________________________

11. How long have you lived here in your community?

12. What are you proud of about your community?

_________________________________________________________________________________________________________

13. You have been identified as a respected leader in this community.
   a) How long have you had this job?
   b) What is your role in this community?
c) How are you involved in community activities?
_________________________________________________________________________________________________________

14. Who are the vulnerable people in your community?
_________________________________________________________________________________________________________

15. What are the major challenges facing your community right now?
_________________________________________________________________________________________________________

16. How are these challenges different from the challenges you’ve faced in the past?
_________________________________________________________________________________________________________

17. How does the community cope with these challenges?
_________________________________________________________________________________________________________

COMMUNITY HEALTH INFORMATION

Through these questions, we hope that your community can begin to understand the health concerns of you and your children. These questions will help us to work with you in achieving your community’s goals.

18. a) In general, how would you rate the health of your community?

☐ Very Good  ☐ Good  ☐ Moderate  ☐ Bad  ☐ Very Bad

b) What are the main health problems that people in your community face?
_________________________________________________________________________________________________________

19. a) In general, how would you rate the health of men in your community?

☐ Very Good  ☐ Good  ☐ Moderate  ☐ Bad  ☐ Very Bad

b) What are the main health problems that men in your community face?
_________________________________________________________________________________________________________

20. a) In general, how would you rate the health of women in your community?

☐ Very Good  ☐ Good  ☐ Moderate  ☐ Bad  ☐ Very Bad
b) What are the main health problems that women in your community face?

_________________________________________________________________________________________________________

21. a) In general, how would you rate the health of your children <5 years of age?

☐ Very Good  ☐ Good  ☐ Moderate  ☐ Bad  ☐ Very Bad

b) What are the main health problems that children <5 years of age in your community face?

_________________________________________________________________________________________________________

22. What are the main causes of health problems in your community?

_________________________________________________________________________________________________________

23. a) Where is the closest health care provider?

_________________________________________________________________________________________________________

b) What services do they provide?

_________________________________________________________________________________________________________

HEALTH, WATER AND SANITATION NEEDS

Thank you. The next set of questions relates to current water and sanitation needs in your community.

1. What are the main sources of drinking water for members in your community?

<table>
<thead>
<tr>
<th>SOURCE OF WATER</th>
<th>WAS THIS A SOURCE OF WATER BEFORE [DISASTER]? (Y or N)</th>
<th>HAS THIS BEEN A SOURCE OF WATER AFTER [DISASTER]? (Y or N)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Piped water (i.e. ‘line water’)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Public tap/standpipe</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Protected dug well</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unprotected dug well</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Springs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SOURCE OF WATER</td>
<td>WAS THIS A SOURCE OF WATER BEFORE [DISASTER]? (Y or N)</td>
<td>HAS THIS BEEN A SOURCE OF WATER AFTER [DISASTER]? (Y or N)</td>
</tr>
<tr>
<td>-----------------------------------------</td>
<td>--------------------------------------------------------</td>
<td>-----------------------------------------------------------</td>
</tr>
<tr>
<td>Surface water (dam, stream, swamp, canal, reservoir)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rain water collection system</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Purchase from vendor</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bottled water</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tanker-truck</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bladder</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other (specify):</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

24. What uses the most water in your community (prompt: crops? Animals? Drinking water for people?)

_________________________________________________________________________________________________________

25. What is the priority water use in your community?

_________________________________________________________________________________________________________

26. In your opinion, what are the main factors that determine whether families have access to safe water in your community? (Prompt: wealth, location in village, position of power)

_________________________________________________________________________________________________________

27. In your opinion, what are the main factors that determine whether families have access to sanitation in your community?

_________________________________________________________________________________________________________

28. Please rate your community on the following statements:

   (1 = strongly disagree, 2 = disagree, 3 = neutral, 4 = moderately agree, 5 = strongly agree)

   a) Community members are interested in becoming involved in water related issues

   b) Community members are aware about water related issues in your community

   c) Community members have knowledge about water related issues in your community
29. In your experience, can you please tell me some of the things (programs or activities) that your community does to promote health, safe drinking water and/or sanitation?

_________________________________________________________________________________________________________

30. Do you feel that these things (programs or activities) are effective in promoting health, safe drinking water and/or sanitation? Why or why not?

_________________________________________________________________________________________________________

31. What do you see as the biggest accomplishment your community has made in improving access to water and/or sanitation?

_________________________________________________________________________________________________________

32. What do you see as the most important priority for your community as you seek to improve access to water and sanitation? (Prompt: why is this important?)

_________________________________________________________________________________________________________

33. Which aid agencies have assisted your community since the [Disaster] on water, sanitation and hygiene issues and in what ways?

_________________________________________________________________________________________________________

34. What did you like about the help you received?

_________________________________________________________________________________________________________

35. What didn’t you like about the help you received?

_________________________________________________________________________________________________________

36. If you ever needed help in another disaster or emergency situation, what sorts of things would you like to have first?

_________________________________________________________________________________________________________

37. How would you like to interact with aid agencies regarding this help?

_________________________________________________________________________________________________________

CONCLUSION

Thank you so much for your time and contributions. This is the end of our questions, but we would still welcome any additional comments, ideas, or concerns that you have. Is there anything we forgot or anything you would like to add?
APPENDIX XVIII:

KAPE Questionnaire Variations:
Post Disaster Transitioning (Community Member)

INTRODUCTION AND INSTRUCTIONS:

Hello. I am _________________ and this is _________________ (translator/facilitator). Thank you for agreeing to participate in this questionnaire. Today I will ask you some general questions about yourself and your community. You do not have to answer any questions that you do not want to. We know you are very busy. Participation is your choice, and it is okay to say no. We do not have money to give you. Would you like to participate in the survey?

Was the participant informed?  Please circle:  Yes  No
Is he/she willing to participate?  Please circle:  Yes  No

Signature (Interviewer): ____________________________________________

Signature (Interviewee): ____________________________________________
GENERAL BACKGROUND

I would like to begin by asking you some general questions about you and your community.

1. How many people live in your household?

_________________________________________________________________________________________________________

2. How many of the people who live in your household are children <16 years of age?
   (List gender and age of children)

_________________________________________________________________________________________________________

3. a) Have you been to school?
   □ Yes   □ No
   
   b) If so, how far did you go in school?

_________________________________________________________________________________________________________

4. What are you proud of about your community?

_________________________________________________________________________________________________________

HEALTH INFORMATION

Thank you. Now we have some questions about the health of your family.

5. a) In general, how would you rate the health of your community?
   □ Very Good   □ Good   □ Moderate   □ Bad   □ Very Bad
   
   b) Please explain (if Moderate, Bad or Very Bad):

_________________________________________________________________________________________________________

6. a) In general, how would you rate your family’s health?
   □ Very Good   □ Good   □ Moderate   □ Bad   □ Very Bad
   
   b) Please explain (if Moderate, Bad or Very Bad):

_________________________________________________________________________________________________________
7. a) In general, how would you rate the health of your children <5 years of age?

- [ ] Very Good
- [ ] Good
- [ ] Moderate
- [ ] Bad
- [ ] Very Bad

b) Please explain why/how you rate it at this level:

_________________________________________________________________________________________________________

8. What are the main causes of health problems in your community?

_________________________________________________________________________________________________________

9. a) Have any of your family members suffered from diarrhea in the past 2 weeks?

   Note: diarrhea is defined as the passage of 3 or more loose or liquid stools per day, or more frequently than is normal for the individual

- [ ] Yes
- [ ] No
- [ ] Don’t Know

b) If Yes, please fill in the following table:

<table>
<thead>
<tr>
<th>PERSON</th>
<th>AGE [Only for Children]</th>
<th>DID THIS PERSON GET TREATMENT FOR DIARRHEA (Yes, No, or DK)</th>
<th>WHAT KIND OF TREATMENT? [buy medicine from pharmacy/kiosk; visit the health care/doctor; traditional medicine/healer; other (specify)]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Person #1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Person #2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Person #3</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

WATER NEEDS

Thank you. The next set of questions relates to water availability and treatment before and after [Disaster].

Water Availability

10. Do you have access to line (piped) water?

- [ ] Yes
- [ ] No
- [ ] Don’t Know
11. What are the main sources of drinking water for members in your household (fill in all that apply)?

<table>
<thead>
<tr>
<th>SOURCE OF WATER</th>
<th>WAS THIS A SOURCE OF WATER BEFORE [DISASTER]? (Y or N)</th>
<th>HAS THIS BEEN A SOURCE OF WATER AFTER [DISASTER]? (Y or N)</th>
<th>CURRENTLY, HOW MANY TIMES PER WEEK DO YOU GET WATER FROM THIS SOURCE?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Piped water (i.e. ‘line water’)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Public tap/standpipe</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Protected dug well</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unprotected dug well</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Springs</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Surface water (dam, stream, swamp, canal, reservoir)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rain water collection system</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Purchase from vendor</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bottled water</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tanker-truck</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bladder</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other (specify):</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

12. a) Currently, what is the cost (php) to obtain and transport this drinking water?

b) What distance is this source of drinking water from your home (in m or km)?

c) How long (hours) does it take one person to go to your drinking water source, get water, and come back?

d) How do you transport this drinking water to your home

(Prompt: jerry cans, pots)

e) Is this water safe to drink?

☐ Yes  ☐ No  ☐ Don’t Know
13. What are the main sources of water used by your household for other domestic purposes, such as cooking, hand washing, bathing and cleaning etc. (fill in all that apply)?

<table>
<thead>
<tr>
<th>SOURCE OF WATER</th>
<th>WAS THIS A SOURCE OF WATER BEFORE [DISASTER]? (Y or N)</th>
<th>HAS THIS BEEN A SOURCE OF WATER AFTER [DISASTER]? (Y or N)</th>
<th>CURRENTLY, HOW MANY TIMES PER WEEK DO YOU GET WATER FROM THIS SOURCE?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Piped water (i.e. ‘line water’)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Public tap/standpipe</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Protected dug well</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unprotected dug well</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Springs</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Surface water (dam, stream, swamp, canal, reservoir)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rain water collection system</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Purchase from vendor</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bottled water</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tanker-truck</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bladder</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other (specify):</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

14. a) Currently, what is the cost (php) to obtain and transport this drinking water?

b) What distance is this source of drinking water from your home (in m or km)?

c) How long (hours) does it take one person to go to your drinking water source, get water, and come back?

d) How do you transport this drinking water to your home
   (Prompt: jerry cans, pots)

15. Who has the major responsibility for water collection for your household?:

- [ ] Adult woman
- [ ] Adult man
- [ ] Female child (<15 years)
- [ ] Male child (<15 years)
- [ ] Don’t know
16. What is the most important water use in your household?
(Prompt: drinking, cooking, bathing, washing)

_________________________________________________________________________________________________________

17. a) In your opinion, what are the main factors that determine whether families have access to safe water in your community?
(Prompt: wealth, location in community, position of power)

_________________________________________________________________________________________________________

b) Describe what your ideal access would be?

_________________________________________________________________________________________________________

c) How does this differ from pre-[Disaster]?

_________________________________________________________________________________________________________

d) What would you be willing to pay for this per month?

_________________________________________________________________________________________________________

18. Please rate yourself on the following statements:
(1 = strongly disagree, 2 = disagree, 3 = neutral, 4 = Moderately agree, 5 = strongly agree)

a) I am interested in becoming involved in water related issues

b) I am aware about water related issues in my community

c) I have knowledge about water related issues in my community

19. How much do you agree with the following statements:
(1 = strongly disagree, 2 = disagree, 3 = neutral, 4 = Moderately agree, 5 = strongly agree)

a) My community is a place that I care a lot about

b) There are places in my community that are special to me

c) My community has a sense of togetherness

d) Mistrust/suspicion of others is an issue in my community

e) Community leaders understand the needs of my community
**Water Treatment**

The following questions relate to your current water treatment practices since [Disaster].

20. **a)** How do you know when the water you use for domestic purposes (other than drinking) is clean and/or safe?

_________________________________________________________________________________________________________

**b)** If it is not clean and/or safe, what things have you done to try to deal with it?

_________________________________________________________________________________________________________

21. **a)** Do you currently treat the water you use for drinking in any way to make it safer?

☐ Yes  ☐ No  ☐ Don’t Know

**b)** If Yes, what do you usually do to the water to make it safer to drink?

(Prompt: boil; use a water filter; add bleach/chlorine; water tablets; strain it through a cloth; solar disinfection; let it stand and settle)

_________________________________________________________________________________________________________

**c)** Why do you treat it?

_________________________________________________________________________________________________________

22. What is your preferred way to treat or purify water for your household?

_________________________________________________________________________________________________________

23. Did you or your family receive a Rainfresh water purification unit from Global Medic or Léger Foundation?

☐ Yes  ☐ No  ☐ Don’t Know

24. Did you or your family member receive training on how to use it?

☐ Yes  ☐ No  ☐ Don’t Know

25. Do you use the Rainfresh unit for drinking purposes only?

☐ Yes  ☐ No  ☐ Don’t Know

26. How many times per week do you use it?


27. How many days ago was the last time you used it?


28. a) How do you know when the ceramic filter needs cleaning?

b) Have you had to clean the ceramic filter yet?
   - [ ] Yes  - [ ] No  - [ ] Don’t Know

29. a) How do you clean the Rainfresh Unit?

b) How often do you clean it?

c) Have you had any trouble with it?
   - [ ] Yes  - [ ] No  - [ ] Don’t Know

d) If Yes, please describe the problem:

e) What is your overall feedback on the Rainfresh unit?
   - [ ] Very Good  - [ ] Good  - [ ] Moderate  - [ ] Bad  - [ ] Very Bad

f) Other comments:

30. a) Do you have any toilets at home?
   - [ ] Yes  - [ ] No  - [ ] Don’t Know

b) Do you use a public toilet?
   - [ ] Yes  - [ ] No  - [ ] Don’t Know

31. a) Where does your family most often go to the toilet?
b) How far away is this from where you collect water?

32. a) In your opinion, what are the main factors that determine whether families have access to sanitation in your community?
(Prompt: wealth, location in community, position of power)

b) Describe what your ideal access would be?

c) How does this differ from pre-[Disaster]?

d) What would you be willing to pay for this?

33. If applicable, what kind of toilet facility do members of your household use?

34. a) Do children 5 years or younger use a toilet?
☐ Yes ☐ No ☐ Don’t Know

b) If yes, where is that toilet in relation to your home?

35. a) Do you share your toilet facility with other households?
☐ Yes ☐ No ☐ Don’t Know

b) If so, how many households use/share this toilet facility?
HEALTH AND HYGIENE

Thank you. The next set of questions deal with health and hygiene in your community.

36. From whom do you learn about health information, such as ways to keep your children healthy or ways to ensure that you are healthy and can work?
   (Prompts: older family members, health care providers, at school, on the radio)

37. From whom would you prefer to learn about health information?
   (Prompt: women’s group leader, public health nurse, someone from outside the community)

38. a) To the best of your knowledge, how regularly do your neighbours use soap? If they do use soap, what do they use it for?
   (Prompt: dish washing, laundry, hand washing, bathing)

   b) Is this more or less often than you do?

   □ More Often    □ Less Often

39. a) Do your children <5 years of age use soap for hand washing?

   □ Yes    □ No    □ Don’t Know

   b) If yes, how often? Please circle:

   □ Never    □ Rarely    □ Sometimes    □ Mostly    □ Always

40. When do your children <5 years of age wash their hands? Please check all that apply:

   □ Before eating
   □ After eating
   □ Before food preparation / cooking
   □ After toilet
   □ Before sleeping
   □ Upon waking
   □ When hands are dirty
   □ When bathing
   □ Other (specify)
41. Did you or your family receive a hygiene kit from Global Medic or Léger Foundation?

☐ Yes    ☐ No    ☐ Don’t Know

42. a) Have you had any trouble with the hygiene kit?

☐ Yes    ☐ No    ☐ Don’t Know

b) If Yes, please describe the problem:
_________________________________________________________________________________________________________

43. a) What is your overall feedback on the hygiene kit?

☐ Very Good    ☐ Good    ☐ Moderate    ☐ Bad    ☐ Very Bad

b) Other comments:
_________________________________________________________________________________________________________

44. Did you or your family receive hygiene promotion training from Global Medic or Léger Foundation?

☐ Yes    ☐ No    ☐ Don’t Know

45. a) What is your overall feedback on the hygiene promotion training you received?

☐ Very Good    ☐ Good    ☐ Moderate    ☐ Bad    ☐ Very Bad

b) Other comments:
_________________________________________________________________________________________________________

LOCAL PERCEPTIONS AND BEHAVIOURS RELATED TO WATER AND HEALTH

Thank you. The last set of questions deal with perceptions and behaviour related to water and health in your community.

46. Where do you get information from on health, water and sanitation?

(Prompt: medical practitioners, community resource persons, community meetings/Barangay captains, neighbours/family/ friends, etc.)
_________________________________________________________________________________________________________
47. Have you ever received any information regarding diarrhea?

☐ Yes  ☐ No  ☐ Don’t Know

48. What was the source of the information?

(Prompt: medical practitioners, community resource persons, child in school, community meetings/Barangay captains, neighbours/family/friends etc.)

49. Has your child/children received any teachings about diarrhea at school?

☐ Yes  ☐ No  ☐ Don’t Know

50. What did they learn about preventing diarrhea?

(Prompt: treat drinking water; wash hands after visiting the latrine; wash hands before eating; use the latrine)

51. Do you know what causes diarrhea?

(Prompt: drinking Bad water; eating Bad food; flies/insects; poor hygiene)

52. How can you prevent you or your family from getting sick/diarrhea?

(Prompt: cannot prevent; wash hands; cook food thoroughly; boil and treat water; clean cooking utensils/vessels)

CONCLUSION

Thank you so much for your time and contributions. This is the end of our questions, but we would still welcome any additional comments, ideas, or concerns that you have. Is there anything we forgot or anything you would like to add?
APPENDIX XIX:

KAPE Questionnaire Variations:
Ceramic Filter (Community Member)

Used in Dominican Republic; translated into Spanish

Date: □ □ □ □

Location:

Identifier Code:

GENERAL BACKGROUND

I would like to begin by asking you some general questions about you and your community.

1. How many people live in your household?

2. How many of the people who live in your household are children <5 years of age?

3. How many of the people who live in your household are children <16 years of age?

4. a) Have you been to school?

☐ Yes    ☐ No
b) If yes, how far did you go in school?

- [ ] Some primary
- [ ] Complete primary
- [ ] Some secondary
- [ ] Complete secondary
- [ ] Beyond secondary

5. How many years have you lived in Dona Maria/Angeleta?

- [ ] <1 year
- [ ] >1 year (specify)

6. What are you proud of about your community?

7. What are the major challenges facing your community right now
(Prompts: jobs, health, corruption, school, electricity, crime)

8. a) What do you estimate is the average weekly household income in your community?

b) Based on this average, would you rank your household income as:

- [ ] Above Average
- [ ] Average
- [ ] Below Average

COMMUNITY HEALTH INFORMATION

Through these questions, we hope that we can begin to understand the health concerns of you and your children. These questions will help us to work with you in achieving your community’s goals.

9. In general, how would you rate/describe the health of your community?

- [ ] Very Good
- [ ] Good
- [ ] Moderate
- [ ] Bad
- [ ] Very Bad

10. In general, how would you rate/describe your household health?

- [ ] Very Good
- [ ] Good
- [ ] Moderate
- [ ] Bad
- [ ] Very Bad
11. In general, how would you rate/describe the health of your children <5 years of age?

- Very Good
- Good
- Moderate
- Bad
- Very Bad

12. What are the main health problems in your community?
(Prompts: pregnancy, diarrhea, fever)

_________________________________________________________________________________________________________

13. What are the main health problems that your children and other children in your community face?
(Prompts: diarrhea, fever, rash)

_________________________________________________________________________________________________________

14. What do you believe are the main causes of health problems in your community?
(Prompts: water, mosquitoes, accidents, working too hard)

_________________________________________________________________________________________________________

15. Have any of your household members, including children, have suffered from diarrhoea in the past 2 weeks?

*Diarrhoea is defined as the passage of 3 or more loose or liquid stools per day, or more frequently than is normal for the individual.*

- Yes
- No

**WATER NEEDS**

Thank you. The next set of questions is about how you see water needs in your community.

16. What are the main sources of drinking water for your household (fill in all that apply)?

<table>
<thead>
<tr>
<th>SOURCE OF WATER</th>
<th>CHECK YES OR NO</th>
<th>FREQUENCY (# of times per week)</th>
<th>USED IN DRY OR WET SEASON (Check which apply)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Piped water into a dwelling</td>
<td>YES</td>
<td>NO</td>
<td>DRY</td>
</tr>
<tr>
<td>Piped water into a yard/plot</td>
<td>YES</td>
<td>NO</td>
<td>DRY</td>
</tr>
<tr>
<td>Public tap/standpipe</td>
<td>YES</td>
<td>NO</td>
<td>DRY</td>
</tr>
<tr>
<td>Tubewell/borehole</td>
<td>YES</td>
<td>NO</td>
<td>DRY</td>
</tr>
<tr>
<td>Rainwater collection</td>
<td>YES</td>
<td>NO</td>
<td>DRY</td>
</tr>
<tr>
<td>5 Gallon (Bottled Water)</td>
<td>YES</td>
<td>NO</td>
<td>DRY</td>
</tr>
<tr>
<td>Surface water (river, dam, lake, pond, stream, canal, irrigation channels)</td>
<td>YES</td>
<td>NO</td>
<td>DRY</td>
</tr>
<tr>
<td>Other (specify)</td>
<td>YES</td>
<td>NO</td>
<td>DRY</td>
</tr>
</tbody>
</table>
17. a) Have these water sources changed from the past?

- Yes  
- No

b) If so, how and why?

_________________________________________________________________________________________________________

18. What are the main sources of water used by your household for *other domestic purposes*, such as cooking and hand washing etc. (fill in all that apply)?

<table>
<thead>
<tr>
<th>SOURCE OF WATER</th>
<th>CHECK YES OR NO</th>
<th>FREQUENCY (# of times per week)</th>
<th>USED IN DRY OR WET SEASON (Check which apply)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Piped water into a dwelling</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Piped water into a yard/plot</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Public tap/standpipe</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tubewell/borehole</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rainwater collection</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5 Gallon (Bottled Water)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Surface water (river, dam, lake, pond, stream, canal, irrigation channels)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other (specify)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

19. a) How long does it take one person to go to your water source, get water, and come back?

b) How many total round trips are made by your household each day to collect water?

c) How many people in your household make these trips?

20. Who has the major responsibility for water collection for your household?

- Adult woman
- Adult man
- Female child (<16 years)
- Male child (<16 years)

21. In your community, what do you think most of the water is used for?

(Prompt: for farming, for house cleaning)
22. In your household, what is your priority use for water?
   (Prompt: bathing, drinking, laundry)

23. How do you know when the water you use is clean and/or safe?
   (Prompt: color, odor, particles, told it is safe by others)

24. a) If you do not think it is clean and/or safe, what things have you done to try to deal with it?
   (Prompts: boil; add bleach/chlorine; strain it through a cloth; use a water filter; solar disinfection; let it stand and settle)

OR

b) If you do not think it is clean and/or safe, why have you not done anything to deal with it?

25. In your opinion, what are the main factors that determine whether families have access to safe water in your community?
   (Prompt: wealth, location in community, position of power)

26. a) Describe what your ideal access would be.

b) What would you be willing to pay for this?

I would like to ask you a few questions about your FilterPure ceramic filter.

27. Is there a working FilterPure ceramic water filter in your household?

   □ Yes  □ No

   If yes, answer the following questions. If no, please proceed to question #36.

28. a) Where did you get the water filter?
b) How much did you pay for it?

_________________________________________________________________________________________________________

c) How long have you had it?

_________________________________________________________________________________________________________

29. Did you or another household member receive training on how to use it?

☐ Yes ☐ No ☐ Don’t Know

30. a) How many times per week is the filter used to fill the bucket?

_________________________________________________________________________________________________________

b) How many days ago was the last time the filter was used to fill the bucket?

_________________________________________________________________________________________________________

31. a) Do you clean the membrane?

☐ Yes ☐ No

b) If yes, how did you clean the membrane?

_________________________________________________________________________________________________________

c) How often do you clean the membrane?

_________________________________________________________________________________________________________

32. a) Do you clean the bucket?

☐ Yes ☐ No

b) If yes, how did you clean the bucket?

_________________________________________________________________________________________________________

c) How often do you clean the bucket?

_________________________________________________________________________________________________________

33. a) Do you clean the tap?

☐ Yes ☐ No
b) If yes, how did you clean the tap?

_________________________________________________________________________________________________________

c) How often do you clean the tap?

_________________________________________________________________________________________________________

34. a) Have you had any trouble with the ceramic filter?

☐ Yes ☐ No

b) If Yes, please describe the problem:

_________________________________________________________________________________________________________

35. a) Have you ever had the ceramic filter replaced?

☐ Yes ☐ No

b) If yes, why?

_________________________________________________________________________________________________________

c) How often and at what cost?

_________________________________________________________________________________________________________

SANITATION

Thank you. Now we have a few questions about the current state of sanitation in your community.

36. Where do your young children <5 years of age go to urinate?

_________________________________________________________________________________________________________

37. Where do your young children <5 years of age go to defecate?

_________________________________________________________________________________________________________

38. Where do people over the age of 5 in your household most often go to urinate?

_________________________________________________________________________________________________________
39. How do you dispose of your urine?

____________________________________________________________________________________________________________________________________

40. Where do people over the age of 5 in your household most often go to defecate?

____________________________________________________________________________________________________________________________________

41. a) How do you dispose of your feces?

____________________________________________________________________________________________________________________________________

b) How far away is the disposal site from your home?

____________________________________________________________________________________________________________________________________

42. If applicable, what kind of toilet facility do members of your household normally use?

☐ Flush/pour flush to (specify: piped sewer system, septic tank, pit latrine, elsewhere, DK where):

____________________________________________________________________________________________________________________________________

☐ Ventilated improved pit latrine
☐ Pit latrine with slab
☐ Pit latrine without slab/open pit
☐ Composting toilet
☐ Hanging toilet/hanging latrine
☐ Other (specify)

____________________________________________________________________________________________________________________________________

43. a) Do you share this facility with other households?

☐ Yes  ☐ No

b) If so, how many households use/share this toilet facility?

____________________________________________________________________________________________________________________________________

c) If you don’t share these facilities, would you be willing to share toilet facilities?

☐ Yes  ☐ No  ☐ Don’t Know

44. In general, how would you rate/describe your sanitation and toilet facilities?

☐ Very Good  ☐ Good  ☐ Moderate  ☐ Bad  ☐ Very Bad
45. In your opinion, what are the main factors that determine whether families have access to sanitation facilities in your community?  
(Prompt: wealth, location in community, position of power)

46. a) Briefly describe what your ideal access would be.

b) Would you be willing to pay for this access?  
☐ Yes  ☐ No  ☐ Don't Know  
c) If yes, how much would you be willing to pay per week?

d) If no, why not?  
(Prompt: for financial barriers, a convenient toilet facility is already present, never thought about it before)

HEALTH AND HYGIENE
Thank you. This set of questions deals with health and hygiene in your community.

47. From whom do you learn about health information, such as ways to keep your children healthy or ways to ensure that you are healthy and can work?  
(Prompt: health practitioner, public information, NGO, relative)

48. From whom would you prefer to learn about health information?  
(Prompt: women’s group leader, public health nurse, someone from outside the community)

49. Do you regularly use soap?  
☐ Yes  ☐ No

50. a) If yes, what do they use it for? (Prompt: dish washing, laundry, hand washing, bathing).
b) If no, why not?

I would like to ask you a few questions about how children in your household use soap for hand washing.

51. Please indicate in the following chart how often and when your children <5 years of age use soap for hand washing at the following times.

<table>
<thead>
<tr>
<th>ACTIVITY</th>
<th>NEVER</th>
<th>RARELY</th>
<th>SOMETIMES</th>
<th>MOSTLY</th>
<th>ALWAYS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Before eating</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>After eating</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Before cooking</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>After urinating</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>After defecating</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Before sleeping</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upon waking</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>When hands are dirty</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>When bathing</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other (specify)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

LOCAL PERCEPTIONS AND BEHAVIOURS RELATED TO WATER AND HEALTH

This is the last section of questions that I need to ask you and it concerns what you think about how information is shared in your community.

52. Where do you get information from on health, water and sanitation?
   (Prompts: medical practitioners, community resource persons, community meetings/Barangay captains, neighbours/family/friends etc.)

53. a) Have you ever received any information regarding diarrhoea?

   ☐ Yes  ☐ No

   b) If yes, what was the source of the information?
   (Prompt: medical practitioners, community resource persons, child in school, community meetings/Barangay captains, telecommunications neighbours/family/friends etc.)

54. a) Has your child/children received any teachings about diarrhoea at school?

   ☐ Yes  ☐ No  ☐ Don't Know
b) If yes, what did they learn about preventing diarrhoea?
(Prompts: treat drinking water; wash hands after urinating or defecating; wash hands before eating)

55. Do you know what causes diarrhoea?
(Prompts: drinking Bad water; eating Bad food; flies/insects; poor hygiene; spirits/curse/Bad omen)

56. How can you prevent you or your family from getting sick/diarrhoea?
(Prompts: cannot prevent; herbs; wash hands; cook food thoroughly; boil and treat water; clean cooking utensils/vessels)

57. How much do you agree with the following statements:
(1 = strongly disagree, 2 = disagree, 3 = neutral, 4 = Moderately agree, 5 = strongly agree)

a) My community is a place that I feel a strong connection with

b) My community is a place that I care a lot about

c) There are places in my community that are special to me

d) Community members have an emotional and physical bond with our community

e) My community has a sense of togetherness

f) Mistrust/suspicion of others is an issue in my community

CONCLUSION
Thank you so much for your time and contributions. This is the end of our questions, but we would still welcome any additional comments, ideas, or concerns that you have. Is there anything we forgot or anything you would like to add?
APPENDIX XX:

KAPE Questionnaire Variations:
Social Capital Questions

58. How much do you agree with the following statements:
(1 = strongly disagree, 2 = disagree, 3 = neutral, 4 = Moderately agree, 5 = strongly agree)

a) My community is a place that I feel a strong connection with
   

b) My community is a place that I care a lot about
   

c) There are places in my community that are special to me
   

d) Community members have an emotional and physical bond with our community
   

e) My community has a sense of togetherness
   

f) Mistrust/suspicion of others is an issue in my community
   

g) People only worry about themselves
   

h) People have prospered in this community over the past 5 years
   

59. How much do you agree with the following statements:
(1 = strongly disagree, 2 = disagree, 3 = neutral, 4 = Moderately agree, 5 = strongly agree)

a) I know someone I can confide in □ Yes □ No

b) I know someone who listens to what I have to say □ Yes □ No

c) I know someone who would help me with chores □ Yes □ No

d) I know someone who would lend me money □ Yes □ No

30 From Barber (2013), Newton (2013) and modified from the World Bank Social Capital Assessment Tool (SOCAT)
60. How many years have you lived in the community?

☐ <1 year
☐ >1 year (specify)

61. What are you proud of about your community?

_________________________________________________________________________________________________________

62. What are the major challenges facing your community right now?
(Prompts: jobs, health, corruption, school, electricity, crime)

_________________________________________________________________________________________________________

63. a) Are you a member of a community or faith-based group or organisation?

b) If so, how long have you been a member?

☐ <1 year ☐ >1 year (specify)

c) What is your role? (Prompt: Leader, active member, inactive member)

_________________________________________________________________________________________________________

64. In the last 12 months, have you personally:

a) Actively participated in an association or club ☐ Yes ☐ No
b) Actively participated in educating others on an issue ☐ Yes ☐ No
c) Made the media interested in a problem ☐ Yes ☐ No
d) Contacted your community leaders or political representatives ☐ Yes ☐ No
e) Run for office somewhere ☐ Yes ☐ No
f) Made a monetary donation ☐ Yes ☐ No
g) Made an in-kind donation ☐ Yes ☐ No
h) Volunteered for a charitable organisation ☐ Yes ☐ No

65. a) Has your community applied for funding to support any water, drinking water, sanitation or hygiene initiatives in the past year?

☐ Yes ☐ No

b) If so, how many?

_________________________________________________________________________________________________________
c) How many were successful?

b) Who led the proposal?

d) Were there any external partners?

☐ Yes  ☐ No

e) If so, who were they?

66. a) Do you trust the leaders in your community?

b) If not, why not?

67. a) If your community had a problem that affected everyone, who do you think would work together to find a solution?

(Prompts: everyone individually, neighbours, local government, political leaders, community leaders together, the entire community)

b) Who would take the initiative to lead?

68. What are the main ways to earn a living in your community for:

a) Men?

b) Women?

c) Youth?

69. Which of the following organisations exist in this community?
70. Which members of the community participate most in solving community problems?

a) Young men
b) Young women
c) Young men and women
d) Men
e) Women
f) Men and women
g) Elders (men)
h) Elders (women)
i) Elders

71. What are the main problems experienced in your community and who do they affect the most?
(Prompt: Robbery, assault, gangs, violence, domestic violence, alcohol abuse, substance abuse, pregnancy in young girls, prostitution)

72. What are the main reasons why people in your community are treated differently?

a) Wealth
b) Education
c) Social Status
d) Landholdings
e) Gender
f) Age
g) Politics
h) Religion
i) Culture
j) Language

CONCLUSION
Thank you so much for your time and contributions.