



WESTERN WATER LIVELIHOOD PROJECT 25th October, 2023 to 27th October, 2023

Report for Water Resource Management
Training for Water User Committees of Springs
Constructed &Protected by Western Water
Livelihoods Project-November, 2023

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1.0 EXECUTIVE SUMMARY

Community training workshop for Water Resource Management was carried for 10no. Water User Committees involved in Management of Spring Water points supported by the Western Water Livelihoods Project. Training was conducted as from 25th October to 27th October, 2023. The workshop had 33 Participants (18men and 15 women) from 10no. Spring Water points.

The workshop facilitators adopted a strategy to achieve the objectives of the trainings.

First, the workshop adapted a synergy of methods role-plays small-group discussions, pairing and action planning to allow for a critical interchange of ideas, to stimulate learning and to establish an on-going follow up through the process.

At the end of the workshops, evaluations were done to determine the level of understanding of participants, which was found to be satisfactory. Some of the objectives of the workshops were:

- 1. Develop capacity of Water User Committees in management of water points
- 2. Define the roles of various partners and stakeholders in management of community water and sanitation project
- 3. Build capacity for sustainability and effective use of the water points
- 4. Promote productive use of water and adaptation of livelihoods based on community water supply
- 5. Share experience in management of water points
- 6. Develop Action plans for implementation by Water User Committees involved in Project activities.

The trained participants formulated action plans for implementation to enhance effective community participation in management of water points and sanitation in target villages. As part of preparations for operation and maintenance after construction the following key aspects were agreed on;

- a) Formation for sub-committees to coordinate various project activities
- b) Initiate mechanism to start income generating activities based on productive use of water to enhance improved livelihoods and sustainability of water projects
- c) Understanding of Water User Committee constitution and by-laws formulation
- d) Active involvement of community members in project implementation and management
- e) Scaling up sanitation improvements via ecological sanitation promotion at households' level

The overall response has been positive based on the training evaluation checklist and outcomes. We therefore hope the process of follow up and capacity-building sessions will be strengthened by the various stakeholders involved and specific water user committees including schools task force committees for the schools involved as per the action plans formulated. This report provides the training process and outcomes with view of enhancing capacities of the various water points water user committees. That all the Water User Committees ensure that the area around the springs sites are well secured with natural vegetation fence and appropriate vegetation cover. The project team wishes to thank the various stakeholders involved in the training and their valuable contribution and support towards project implementation. We especially thank the sub county department of agriculture, provincial administration and the various water user committees involved in project implementation process.

2.0 KEY RECOMMENDATIONS AND WAYFOWARD

- 1) That all the spring water points sites should have cut off drains to prevent storm water from destroying the spring catchment and reduce any form of pollution
- 2) Environment Protection and management by-laws need to be introduced to all spring water points to ensure the sustainability of the water point and reduce any factors contributing to water point pollution
- 3) Every effort needs to be put in place to promote and ensure gender equity in all hygiene, water and sanitation implementation processes and to ensure that gender concerns are addressed in planning and implementation of hygiene, water and sanitation activities.
- 4) The Water User Committees' should mobilize communities' members to start mobilizing funds for operation and maintenance to enhance sustainability of the spring water points.
- 5) The Water User Committees need to scale up production of cassava and tissue banana for households' food security
- 6) That the Water User Committees need to formulate arrangement of giving feedback to all the villagers through the village level barazas so that all the community members can be involved in project implementation and decision making process
- 7) The Water User Committees should take a leading to ensure households sanitation improvements is attained in the respective villages
- 8) That Water User Committees to form subcommittees to enhance implementation of various project components.
- 9) That the water user committees to enhance membership drive so that they can easily mobilize resource for project development and up scaling.
- 10) Future project implementation process should integrate hygiene promotion by capacity building resource persons to enhance community appreciation of water services and scaling up improved sanitation thus adding value and quality of project interventions.
- 11) All water points to be fenced to secure the water points from encroachment of animals and also vandals
- 12) Each water point need to scale up vegetable production for income generating to improve levels of income in the community
- 13) Operation and maintenance manuals provided should facilitate effective use and sustainability of the water facility constructed by the project
- 14) That the Water User Committees should ensure the spring water points have adequate vegetation cover to enhance improvement of water yields

3.0 WORKSHOP PROCESS FOR WATER RESOURCE MANAGEMENT TRAINING

DAY ONE: WEDNESDAY, 25TH OCTOBER, 2023

THEME: INTRODUCTION& COMMUNITY MANAGEMENT PROCESS

ACTIVITY 1: PARTICIPANTS INTRODUCTION

Purpose

To reduce social distance, informally build group spirit and break the ice among participants with view of improving/facilitating interaction Participants discussed and agreed on the following likes and dislikes during the workshop

LIKES		DISLIKI	DISLIKES	
1.	Leadership	1.	Anti-development	
2.	Peace and unity	2.	Lies	
3.	Faithfulness	3.	Gossiping	
4.	Group work	4.	Violence	
5.	Working hard	5.	Late comers/time wasters	
6.	Time management	6.	Loud sound	
7.	Transparency	7.	Proud people	
8.	Planting trees& environment	8.	Laziness	
9.	Cooperation	9.	Corruption	
10.	Education and knowledge	10.	Misunderstanding	
11.	Agriculture	11.	Arguments	

ACTIVITY 2: PARTICIPANTS EXPECTATIONS AND WORKSHOP OBJECTIVES

Purpose

- 1. Share hopes, fears and expectations about the workshop that can be monitored during the training
- 2. Explore the participants' constructive criticisms
- 3. Build participant's confidence and encourage communication on issues beyond the training program

HOPES		FEARS	
1.	Learn agriculture production		
2.	Initiate new projects for groups	1.	Time consuming
3.	Knowledge of water point maintenance	2.	Inadequate community participation
4.	Experience in drip irrigation installation	3.	Inadequate time to complete sessions
5.	Learn productive use of water	4.	Pests and diseases in food production
6.	Learn group development	5.	Break down of pumps
7.	Sustainable water points and water livelihoods	6.	Inadequate markets for food production
8.	Good nutrition and healthy feeding	7.	Poor food storage
9.	Improve food production and sufficiency		
10.	Promote self –reliance and sufficiency in food production		
11.	Marketing of food products		
12.	Proper storage of produced food stuff		
13.	Community participation in poverty reduction		
14.	Operation and maintenance of water points		
15.	Improve hygiene and sanitation in the village		

Workshop Objectives

- 1. Improve management of water resource facilities
- 2. Facilitate effective use of water points
- 3. Promote hygiene & sanitation improvements
- 4. Develop capacity for operation &maintenance of water points
- 5. Enhance good leadership to enhance sustainability
- 6. Enhance livelihoods through productive use of water
- 7. Develop appropriate Community action plans

ACTIVITY 3: OVERVIEW NATIONAL WATER POLICY AND WATER SECTOR REFORMS

Plenary presentation

Objective: To enable the Water User Association leaders understand the changes in the water sector and the new institutions that have been created because of the reforms.

1. Introduction

- a) The water sector reforms are enshrined in the Water Act 2002, which provides the institutional and legal framework for implementing the sectors' policy objectives, which are:
- b) To conserving and protect water resources and allocating them in a sustainable manner
- c) To supply adequate and good quality water while ensuring safe disposal of wastewater and environmental protection
- d) To establish efficient and effective institutional framework, promoting and supporting participation of users
- e) To develop sustainable financing mechanisms. This will enable the management of effective water supply and sanitation development.

2. The Act Provides

- Clear definition of the roles of institutions in the sector to minimize duplication and conflicts;
- Separation of roles policy formulation, provision of water and sanitation services and management of water resources;
- Creation of new institutions to carry out the new mandates envisaged by the new water policy (decentralized institutional framework);
- Retain the residual role of the Ministry as sector coordination, policy formulation and development of sector legislation

3. The various institutions under the water sector reforms include the following:

- Ministry of Water and Irrigation (MWI)
- Water Resources Management Authority (WRMA)
- Water Services Regulatory Board (WSRB)
- Water Services Boards (WSBs)
- Water Service Providers (WSPs)
- Water Services Trust Fund (WSTF)
- Water Appeals Board (WAB)
- Catchment Area Advisory Committees (CAACs)
- Water Resources Users Associations (WRUAs

4. The Water Act 2002 separates policy formulation, regulation and services provision and management of water resources.

It defines clear roles for sector actors and a decentralized institutional framework. The following key institutions are involved in coordination and implementation of the water services in the country.

Key institution	Role & Mandate
1. Ministry of Water and Irrigation	services for all relevant key institutions
2. Water Resources Management Authority (WRMA	 Management, protection and conservation of water resources Develop principles, guidelines and procedures for allocation of water resources; Monitor and enforce conditions attached to water permits; Manage and protect water catchment; Regulate and protect water quality etc. Ensure rational and equitable allocation of water resources in an integrated manner to reduce use conflicts while ensuring allocation for ecological sustenance)
3. Water Services Regulatory Board (WSRB)	
Water Services Boards (WSBs) Seven water service boards at regional level	Responsible for efficient and economical provision of water services in their respective areas; Responsible for controlling water facilities, applying regulation on water services and tariffs, purchasing and leasing water and sewerage assets and contracting water services providers.
5. Water Services Providers (WSPs	Provide water services under delegated authority of WSBs Agreement with WSBs Approval of WSRB
6. Water Services Trust Fund (WSTF)	Financing the provision of water services to needy areas of Kenya
7. Water Appeals Board (WAB)	Handling appeals from any person having a right or proprietary interest, which is directly affected, by a decision or order of the Authority, the minister or the Regulatory Board concerning a permit or license.
8. Catchment Area Advisory Committees (CAACs)	Advice the WRMA at the appropriate regional office concerning: 1. Water resources conservation, use and apportionment 2. Grant, adjustment, cancellation or variation of any permit 3. Any other matters pertinent to the proper management of water resources
9. Water Resources Users Associations (WRUAs)	 Identifying, quantifying and registering water consumers Water locations and catchments management Determination of water and sanitation investment demands Monitoring and information systems for water quantity and quality Conflict resolution and management of water resources in the catchments In recognition of the role of women in water resources management, at least 30% of members of WRUAs should be women.

RATIONALE FOR WATER SECTOR REFORMS

Chang follow	es in policy based on the ing	Proble	ms /issues that motivated water sector reforms
1.	Separation of functions;	1.	Degradation of water resources – decreasing dry season flows,
2.	Decentralization;		deteriorating water quality;
3.	Commercialization of services;	2.	Degradation of water catchments and riparian areas;
4.	Stakeholder and private sector	3.	Poor reliability of water supplies;
	participation	4.	Lack of financial resources;
		5.	Insufficient or inappropriate support;
		6.	Increasing incidence of water use conflicts;
		7.	High vulnerability to droughts and/or floods.

A) KEY ASPECTS OF THE WATER SECTOR REFORMS

1.	Water as an economic and social good	This implies that although water comes free from the clouds, there are costs associated with managing and making the water available to consumers. Three key features are associated with treating water as a social and economic good
2.	Commercialization of water services	This implies that water services should operate on commercial principles a) Charges for providing a service b) Revenues must exceed operating expenses c) There should be a mechanism for capital replacement d) Business should have proper books of accounts Water business should run as a separate entity from other activities (this is why all the municipal water supplies have been handed over to companies (Water Service Providers or WSPs) owned by the municipal councils — so that the water service provision runs as a separate operation to all the other affairs of the council)
3.	Protection for vulnerable groups so that, despite water charges, they are not denied access to water for basic needs	Revenue from water business should not be used outside the water business (ringfence revenue). This means that water cannot be charged at high tariffs to finance, say new road. Block tariff structures – tariff structures that recognize different economic status within the consumer population
4.	Economic value of water	This implies that water allocation should recognize productive, domestic and environmental uses of water. There are costs associated with managing the water resources. The following consequences are noted: 1. WRMA charges water use charges for resource management; 2. Water charges means there will be less wastage; 3. Polluter Pays principle. If someone pollutes or degrades the water quality so others cannot use it or have extra costs to clean the water before they use it, then the polluter, if caught, can be made to pay for the cleanup of the resource

B) STAKEHOLDER PARTICIPATION

This means that private and community stakeholders should play a greater role in water services and water resource management based on the following rationale

- 1. Community members should have a greater voice in deciding how government resources are spent on water services and water resource management (Example: CWP can apply for CDF financing);
- 2. Community members should have a greater voice in deciding what kind and quality of services they require (e.g., communities must be consulted before projects are designed or implemented);
- 3. Community members should have a greater voice in how water is allocated to competing water demands (through a WRUA water resource users association comment on permit applications);
- 4. Private companies should be used more in the water sector to increase professionalism, performance or output based services, and competition (e.g. Municipal services are now run under a publicly owned company, borehole drillers are from private sector)

ACTIVITY 4: EFFECTIVE COMMUNITY BASED MANAGEMENT AND ROLE OF COMMUNITIES IN WATER AND SANITATION

Purpose

Community and participants to appreciate the good attributes of effective community management process Plenary and brainstorming session

Attributes	Objectives and outcomes
1. Discussions/Meeti	 It helps to make a work plan People will work voluntarily and willingly Work will be well done
2. Initiative	5. Help in choosing good activity 1. Accomplish work on time 2. Accomplish standard work 3. It improves work standard
3. Problem Solving	It allows exchanging of views It creates moral relationship among members It discourages misuse of funds It minimizes problems in the organization
4. Organization	1. It creates social relationship 2. It makes work easier 3. Members can acquire loans/grants from the Government Can be able to solve problems 4. Can be able to market goods anywhere 5. Can learn different skills from others
5. Self-Reliance	1. To solve our problems accordingly 2. We need to sustain our daily needs 3. Create aspects of unity 4. It creates aspects of social, cultural, and economic independence 5. Creates the aspect of commitment and responsibility
6. Committed and Re	· , , ,
7. Demand Driven	Sustain the needs of the community Resources of the community are well utilized Political interference is reduced to community project
8. Action	To develop the group Helps choosing the right work that's affordable Helps improving the lives of people around us
9. Planning	Planning help identify goals Helps in setting specific time to start and end projects Helps in determining the cost of material use Help in choosing the right activity
10. Making Decision	Helps get the right usable idea For transparency and accountability Brings unity in the group Saves time
11. Raising And Mand of Money	1. Help get finance 2. Helps the group to identify the method of using funds 3. Helps the group to invest in money generating activities 4. Help the group develop
12. Empowerment	1. Because we understand our needs 2. To work on our own/skilled 3. To exploit our skills 4. Helps us to make our own decisions 5. Eradicates the culture of corruption

ACTIVITY 5: LEADERSHIP STYLES AND QUALITIES

Plenary presentation

Objective -To enhance leadership skills in the Water User Committee members.

a) Introduction to good leadership

Who is a Leader	Leadership Qualities
A leader is a person who has ability to influence	There are many leadership qualities and some are
the community to work in harmony and to achieve	shown here below;
a set goal in an organization.	a) Ability to communicate
	b) Intelligent
	c) Courageous
	d) Flexible
	e) Have time for public service
	f) Self confidence
	g) Ability to inspire h) Integrity
	i) Good judgment

b) Key attributes of Leaders

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Key Attributes	Rationale	
1. Acceptability	A person who commands respect and self-discipline. Has good	
	interpersonal relations and meets minimum community norms of good	
	conduct	
2. Job-Competence	Has a track record of exemplary performance in a skill area or areas	
3. Ability to listen	Listens patiently for meaning and understanding	
4. Tolerance	Has the ability to listen to and accommodate dissenting views and	
	constructive criticism	
5. Delegation	willing and able to share responsibilities in order to build the potential of	
	others	
6. Flexibility	open to change and reason	
7. Communicative	Can influence others through logical and effective speech.	
Competence		
8. Empathy	Ability to enter into others" feelings as a way of understanding a	
	situation.	
9. Self-Organization	Sets an example on personal orderliness	
10. Self-confidence	Inspires confidence in others because he/she has the same.	
11. Honesty	Can be trusted at all times	
12. Reliability	Is dependable on words, promises and deeds	
13. Impartial	Is guided by fairness, truth and justice in making all decisions.	
14. Good time	Ensures good time management in all activities	
manager		

c) Leadership Styles

Leadership Styles	Description
1. Autocratic Leader	This leader centralizes leadership, does not allow any participation but motivates subordinates. His motto is that of, "I will help you if you obey me".
2. Democratic Leader	Democratic leader decentralizes power and allows for group participation in decision-making. The motto of this leader is, "Do you agree with my views"
3. Free-Reign (Laisez—Faire)	A laizzer-Faire leader may be described as a "No decision-making" leader since he is passive and has no initiatives of his own. His motto is, "What do you want to do it".
4. Dictator	This leader leads with an iron hand and subordinates live under fear. His leadership code is, "you must do what I say"
5. Visionary Leader	This is a leader who lives in the future, he sets targets and works towards the achievement of the goals

Group Task

Participants discuss /define the different types of leadership and analyze the advantages and disadvantages

A) DEMOCRATIC LEADRESHIP

This is a leadership where views from different people opposing minds are set together for better governance

Advantages	Disadvantages
1. Freedom of all people to participate	1. It is time consuming-discussions
2. All citizens views are accepted	2. It encourages indiscipline
3. It caters for all citizens regardless of position	3. It creates burdens to some communities4. It is not easy to create a decision
4. There is freedom of choices	
5. It allows opposition parties to criticize the Government	

B) AUTOCRATIC OR DICTATORSHIP LEADERSHIP STYLES

Advar	Advantages		Disadvantages	
1.	No contradiction to the passed law	1.	Those governed have no freedom to decision making	
2.	It gives the leader easy time to	2.	The Government suffers a great deal i.e. death	
	pass laws	3.	Always his reign doesn't last longer	
3.	No time for funds wasted on passing discussion in any motion	4.	No development is noticed since most people don't participate	
	for it needs less time for one to decide	5.	Those governed easily drop out since their view are not considered	
		6.	Triggers possibility of growth of other groups Spend funds of his group on his intention	

C) LAISSE-FAIRE LEADERSHIP STYLES

Definition: This is the type of leadership whereby followers or subordinates are given tasks and left alone to decide their way forward

Disadvantages Advantages 1. Decision of members is taken on put in action 1. Encourage a lot of laziness without forcing them 2. Specific timetable is freely set by the members 3. Identification of problems within that period is amongst people 2. A lot of time is wasted on decisions 3. Expert ideas are realized Easy to define goals in the group 4. Inadequate follow -up 5. No peace and cohesion 5. Minority building ideas is harvested from less 6. No respect and discipline active people in the group 6. Exposes exploration & discovery in doing activities 7. Destroys progress of the group 7. Brings in different views in the group due to conflicting ideas 8. Encourages freedom of participation

Summary of leadership styles

Best leadership style-Democratic & Reasons

✓ Every member is involved✓ Everyone cares

- ✓ Everyone is a beneficiary (both gender and youth)
- ✓ Everyone contribute equally
- ✓ Everybody's opinion heard and respected
- There is transparency and accountability Success of the project is high

Qualities of a Good Leader

- ✓ Listens
- √ Patient
- ✓ Polite
- √ Good role model
- ✓ Determined
- ✓ Willing to Trustworthy

Conclusion-Leadership skills improvement is necessary if Water User Committees have to develop and serve the people in a cordial environment generally Water User Committees leaders has to be democratic.

ACTIVITY 6: GENDER RESOURCE AND TASK ANALYSIS

Purpose:

To depict and examine Gender roles /tasks in the area of water, sanitation and hygiene behavior To determine the different tasks women perform each day, the sequence in which they do them. How long each activity takes and whether the most time consuming activities are considered a problem. To raise awareness of men and women's workloads To depict and examine resources that are owned by men and women and which can be used for improvement of water, sanitation and hygiene behaviors.

Task

- ♦ Draw a 24-hour time cloak indicating activities, which are carried out by men and by women. ♦ List Resources available in a household and indicate who controls what resource between man/woman.
- ♦ Indicate who does what between men/women or both
- ♦ Who controls what resource between men/woman or both.
- ♦ Who should be the target for hygiene and sanitation awareness?

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- •) What should be our gender strategies?
- •) Are current development initiatives designed at alleviating the burden of women?

Sample presentation for water and sanitation based on gender

6.1.1 24-GENDER O'CLOCK EXERCISE

a) 24-Gender o'clock women

TIME	ACTIVITIES
5.00am	Waking up
5.00am- 6.00am	Preparing breakfast for the family
6.00am-7.00am	Preparing(bathing) children to the school
7.00am	Having breakfast with family
8.00am	Fetching water, Cleaning house and compound Opening for chicken Making beddings
8.00am -9.00am	Washing of clothes and nappies Showering and bathing of the baby
9am-10.00am	Preparing uji for those at the farm , Washing utensils
10.00am-11.00am	Water collection and lunch preparation
11.00am-2.00pm	Washing utensils and breast feeding
2.00pm-3.00pm	Collection of firewood and going to the posho mill
3.00pm-6.00pm	Attending the meetings and discussions Going to the market and the farm, Preparing supper and bathing children Preparing water for husband to bathe
6.00pm-8.00pm	Serving supper
8.00pm-10.00pm	Washing utensils and waiting for mzee

b) 24 Gender o'clock for men

TIME	ACTIVITIES
6.05 am	Waking up
6.05 am-7am	Monitoring and supervision of animals/compound
7am-8am	Take breakfast, Checks farm laborers,
8am-1.00pm	Looking for farm inputs and Marketing produce
1.00pm-2.00pm	Lunch hour and listening to news
2.00pm-7.00pm	Local market and Entertainment
7.00pm-9pm	Monitoring his farm
9.00pm	Showering
10.00pm	Bed and waiting for the wife

6.1.2 WOMEN TIME MANAGEMENT

ACTIVITY	TIME	DURATION
1. Fetching water	Early morning	4 Hours
2. Washing utensils	After every meal	30Minutes
3. Taking children to the clinic	Morning	A day
4. Weaving	Leisure	2 hours a day
5. Milking	Morning & Evening	1 Hour
6. Thatching	Morning	2hr to 4 hrs
7. Waste disposal	Morning	5minutes
8. Pounding maize/Muthokoi	Any time	30 minutes
9. Digging and weeding	Morning	3 hours
10. Feeding babies/children	Any time	20 minutes
 Reading magazine/newspapers 	Evening	30 minutes
12. Washing latrines	Morning	30 minutes
13. Sweeping compound	Morning	30 minutes
14. Tethering	Morning	1 Hour
15. Cutting trees	Any time	1 Hour
16. Market	Morning	A day once a week
17. Washing clothes	Morning	3 days per week
18. Breast feeding	Any time	10 to 20 minutes
19. Fetching fire wood	Evening	3 hours
20. Cooking	Morning and Evening	20 o 30 minutes or 1 hour

6.1.3 RESOURCE ANALYSIS OF MAJOR RESOURCES AT HOUSEHOLDS

RESOURCE	WHO HAS ACCESS?	WHO CONTROLS?	WHO BENEFITS?
1. Land	Man/woman	Man	Man/woman
2. Trees	Man/woman	Man	Man/woman
3. Money	Man/woman	Man/woman	Man/woman
4. Livestock	Man/woman	Man	Man/woman
5. House	Man/woman	Man	Man/woman
6. Utensils	Man/woman	Woman	Man/woman
7. Radio/TV	Man/woman	Man	Man/woman
8. Bee-Hive	Man	Man	Man
9. Farm tools /equipment	Man/woman	Man	Man/woman

Summary of the Gender in water, hygiene and sanitation Key issues noted

- Women overburdened and may not have time to attend hygiene and sanitation promotion sessions
- Men have adequate time to attend hygiene and sanitation and sanitation sessions but have no time to implement
- Women do most of the household chores pertaining to hygiene and sanitation
- Most of the decision-making process based on hygiene and sanitation practices
- Children are taught positive hygiene and sanitation practices by women and good health by all.

6.1.4 Proposed ways to improve the Gender disparities in water and sanitation together with strategies to promote gender equity in hygiene, water and sanitation

Ways to reduce Gender disparities		Strategies to promote Gender equity	
1. 2. 3.	Community sensitization in gender equity Discarding negative cultural values Sharing responsibilities among the family members	Promote community empowerment process through participatory learning methods Behavior and attitude change by community members of Gender issues i.e. role of women and girl child	on
4.	Provide equal opportunities and fairness to both women and men	3. Facilitate shared decision making and chain of commar 4. Respect one another i.e. Men respect to women Promo	
	Promote basic education for the girl child Men to share with women some of the household activities especially taking children to school during their spare time	positive cultural values that promote women	

6.1.5 Gender checklist for WASH programming

Genero	ıl data	Water collection, transportation, and allocation at household (HH) level	Access to, and control over, water source
✓ ✓	Total number in family. Data disaggregated by age and sex. Number of families headed by females, and number by males. Child-headed families. Number of unaccompanied boys and girls, elderly, and	Patterns of water collection (water fetching and carrying): time spent (hours / day). ✓ Relationship between water collection and girl child school attendance. ✓ Gendered division of access to means of water transportation. When the family has access to private transport (bicycle, donkey, motorbike, etc), do men retain priority use, leaving women more reliant on travel by foot? ✓ Patterns of water allocation among the family	✓ The different uses and responsibilities for water by men, women, and children (e.g. cooking, sanitation, gardens, livestock, etc.). ✓ Who makes decisions about different water use in the community (water for irrigation, domestic use, livestock watering, water
	disabled people.	members (sharing, quantity, quality).	selling, brick making, etc.)? Do women have access to income generation activities related to water

6.1.6 Guidelines on Gender time management and technical options

Gender division of time-use in the HH Technical options / operation and maintenance (O&M) Who makes the decision about the time spent at What is the division of responsibilities between men HH level? and women for maintenance and management of 2. What is the normal means of handling, storing, water and sanitation facilities? Are women equally and treating water at HH level? represented in community development committees, 3. Who is responsible for HH hygiene? Who is water committees, community associations, etc? 2. Which roles do women take on in those responsible for hygiene and sanitation practices at community level? associations? Do they have access to the treasury? 4. If women are responsible for the hygiene status Who usually maintains the latrines/water points? of themselves and their families, what level of 3. Does the community need technical training on knowledge and skills do women have? latrine operation and maintenance and hygiene, and/or managerial training for maintenance? 4. What are the options for convenient user-friendly designs, low cost and affordable facilities? 5. Are the physical designs of water points and latrines appropriate to water source, and the number and needs of users? 6. Does the community need facilities adapted for disabled/elderly people (especially women)?

6.1.7 Guidelines on Gender privacy and traditional roles

Privacy	and security	Sanitary habits of women and girls	
2.	Location and design for privacy and security of water points/latrines and bathing facilities. Safety around water sources, especially if women and children are primary users. Do women feel constrained to travel alone in public to the water point/sanitation facilities because of real danger of aggression or social disapproval	1. What is appropriate to discuss? What types materials are appropriate to distribute? Howare children's faeces dealt with? 2. What are the cultural assumptions with regard to water and sanitation activities during pregnancy, menstruation, anal cleaning, etc?	w ırd
Cultura	l issues	Traditional gender roles and power structure	
1.	What are the main cultural issues, which impact upon women's and men's access to water and sanitation?	 How do women perceive themselves in traditional roles and active participation? How much of this can be changed and how 	
2.	Do men and women share the same latrine (at HH level and Community level)	much cannot be changed?Who decides how much money should be spent on water?	

Why should there be equal gender representation in the Water User Association?

- 1. Women are the principal users of a water system. It is in his or her interests more than anyone else for the water system to function properly.
- 2. As principal users of water, women are the best judges of the most suitable standard of service required (e.g. when water point should be open) and are the first to recognize problems.
- 3. Women have considerable knowledge of existing water sources, the amount of water, which ones are seasonal and perennial, information that is very important at the planning stage.
- 4. Women and men's opinions and preferences may differ. It should not be assumed that an all-male committee would always represent the best interests of all users of a water system. Within Kenya women and girls represent more than half the population of the village, if they are left out you lose the opinions, good ideas and commitment of the majority of the community.

 5. Women are less likely to leave the village to seek work, past experience has shown than a significant number of men trained are not on hand to deal with problems when they arise, because they have left the village for work or national service. (Members who are likely to leave the village for a prolonged period should not be chosen as members of the committee or to be an attendant.

6.1.9 Suggestions for improving gender awareness

Community consultation

- Ensure recruitment of men and women on the team.
- Ensure that women are available to talk to women, and men to men, in the assessment (especially when discussing sanitation and personal hygiene).
- Work separately with women's and men's groups, where necessary, to counter exclusion and prejudice related to water, sanitation, and hygiene practices.
- 4. Women and men need to be consulted about convenient times and locations for meetings, and they need time to be given time to reorganize their schedules.
- Involve both men and women in discussions on water and sanitation, including personal hygiene habits, general health, and the needs and fears of children (do not just focus on women).
- Conduct consultations in a secure setting where all individuals (including women and girls) feel safe to provide information and participate in discussion and decisionmaking.
- Include questions on cultural and ethnic beliefs on water usage, responsibilities, and sanitation practices.

Social research

- Through interviews with key informants, try
 to understand the power and social relations
 in the target communities. Examine the roles,
 responsibilities, processes and workloads of
 children, women, and men, and the rich and
 the poor, in terms of labour in their homes,
 hygiene practices, and water use and
 management.
- Determine how women's and men's participation and skills acquisition influence power dynamics at the HH level. Be aware of possible increases in domestic tensions and provide basic conflict resolution and support where possible.

Link to hardware / community training

- Provide 'coaching' advice to engineers and hygiene promoters on how to work with the community and make effective use of women's knowledge of the community.
- 2. Provide formal and on-the-job training for both men and women in construction, operation, and maintenance of all types of water and sanitation facilities, including wells and pumps, water storage, treatment, water quality monitoring, distribution systems, latrines, and bathing facilities.
- Ensure that the training is suited for the specific needs of women (timing, language, educational requisites, etc). The training needs to be especially tailored to the specific requirements of poor women and vulnerable groups.
- 4. Offer training in water management to men (preferably using men to men training), especially for single male-headed HHs in which they have previously relied on women to collect water and to manage the cooking, personal hygiene and domestic needs for the family.
- Work with community groups to expand, operate, and maintain communal facilities, and dispose of liquid and solid wastes.

Gender sensitization

- 1. Develop special activities on gender sensitization for men.
- Target hygiene programs not only to mothers, but also to fathers and other carers of children.

ACTIVITY 7: FINANCIAL MANAGEMENT AND RECORD KEEPING

Purpose

To make the leaders understand how to handle primary documents and also apply them in the day to day running of the Water User Committees

Primary documents- where initial transactions in a Water User Associations are done e.g. Receipts, Vouchers, Bank Statements, Cheque Book, Invoices, Banking Slips, Purchase Order Book **Secondary documents**-Cash Book, Ledger, Inventory

Type of documents	Information required
1. Asset Registers	Maintains record of Water User Association assets
2. Invoice	List of items purchased (quantity, quality ,price and terms of sale offered by supplier)
3. Members register	List of members and their personal names among other details
4. Receipt Books	Record of all the money paid by the Community members
5. Payment Voucher	This shows that money going out was paid for the right purpose
6. Stock taking Journal	Shows quality of stock, status and value
7. Order Book	To order for services and goods
8. Delivery Note	It shows goods and services delivered
9. Cheque	Used for paying or settling a debt
10. Cash Book	Record of all money paid in or out through cheque or cash
11. Ledger-	Summary of all transactions in a business
12. Statement of Affairs	-Reflects a summary of all accounts on a ledger

DAY TWO: THURSDAY, 26TH OCTOBER, 2023

THEME: GROUP DEVELOPMENT, HYGIENE &SANITATION IMPROVEMENTS

ACTIVITY 8: GROUP DEVELOPMENT DYNAMICS

Purpose

To enhance group leadership skills and form the leaders on critical stages in-group or Water User Committee Development

Methodology -Plenary presentation

8.1.0 Introduction

What is a Group?	Importance of a Group?
A group is a collection of individuals intending to have Individual need groups since they provide:	
a common aim under the direction of one leader. Members of a group share a sense of common identity. Therefore a group is more than an aimless crowd of people	9 011110103

8.1.1 Group Behavior analysis

Behavior/Cohesiveness	Development
Stage1: Forming	Undeveloped team
A Water User Committee at this stage finds out why it	Feelings are avoided; objectives are uncertain. The group starts
should exist. It should find out what tasks, rules and	to acquire information and resources and mostly relies on the
methods it is going to adopt. To achieve their	leader for decisions.
objectives.	
Stage2: Storming	Experimenting Team
During the storming stages a Water User Committee	Issues are faced more openly and listening takes place.
develops internal conflicts and members resist tasks	
and by —laws/rules and emotional levels are high.	
Stage3: Norming	Consolidating Team
Conflict is settled; cooperation develops;	Personal interaction is established on a cooperative basis, tasks
Views opinions and ideas are exchanged and new	and roles are clarified, objectives agreed and tentative
standards of relations (norms) are developed	procedures implemented
Stage 4: Performing	Mature team
Teamwork is achieved; roles are flexible; solutions to	Feelings are open, a wide range of options
problems are found and implemented	Considered, working methods are methodical leadership styles is
	contributory, individuals are flexible and the group recognizes
	its responsibility.

8.1.3 Development of groups and Water User Committees

Reasons	for Formation of Groups	Characteristics of an Effective Group	Factors that hold a group together and disadvantages of having a group
1.	Certain tasks can only be performed through the combined effort of	 A belief in shared aims and objectives. A sense of commitment to the group. 	Similarity of work Physical proximity Group size (smaller rather)
2.	a number of individuals working together;	Acceptance of group values and norms.	than large) 4. Commitment to deal with
3.	Groups may encourage cooperation between members;	 A feeling of mutual trust and dependency. 	threats from outside and within
4.	Groups may provide companionship and a source of mutual	 Full participation by all members and decision making by consensus. A free flow of information and 	 The prospects of rewards Leadership style of the committee /manager
5.	understanding and support from colleagues;	communication. 7. Open expression of feelings and	7. Common social factors (age, race, social status,
6.	Membership of a group provides the individual with a sense of belonging;	disagreements. 8. The resolution of conflicts by members themselves.	etc) Disadvantages of having a group: 1. It can be time consuming in
7.	The group provides guidelines on generally acceptable behavior;	A lower level of turnover, absenteeism, errors and complaints	making decisions; 2. It can promote dependency
8.	The group may provide protection for its membership		of individuals on the group

ACTIVITY 9: OVERVIEW AND FORMULATION OF WATER USER COMMITTEES CONSTITUTION/BY-LAWS

Objective

Enhance better understanding of the Water User Committee constitution and key articles for effective management of water projects

Methodology: Plenary presentation & Brainstorming

9.1.0 Introduction

What c	onstitution defines	Rationale for good constitution
1.	Objectives of the group/Water User Committee	Help the group/Water User Committee to realize its
2.	Organizational structure with committees and officials	objectives 2. Protect individual interests within the context of
3.	Who has authority to make decisions on	serving the group objectives
	behalf of the group	3. Minimize risk to the project from authoritarian or
4.	What funds can be used for and how they	weak leadership
	should be accounted for	4. Provide systems of accountability to the membership
5.	How to elect leaders and how long they can	5. Make the group operate efficiently
	stay in office	Minimize conflicts by being clear on rules and
6.	How often meetings should be held and how they should be conducted	procedures
7.	How the constitution can be changed	

9.1.1 Issues arising from constitutions

Common cases where Water User Committees' constitutions are overlooked	Steps that a group/Water User Committee can take to minimize the constitution being overlooked	
 Timing of meetings; Conduct of General meetings; Notice period for General Meetings; Frequency of elections; Holding committee meetings when there is a lack of quorum; Utilization of funds for purposes stated in constitution 	 Ensure all project members have a copy of the constitution and have had a chance to be inducted "into the constitution"; Appoint an oversight or audit sub-committee whose job it is to ensure that the constitution is followed and to raise any points to the main committee where the constitution is overlooked; In cases where the constitution is impractical, then it is necessary to make a change to the constitution so that it can be followed more easily. 	

9.1.2 The risk to the group in the event that the constitution is not followed includes:

- 1. Authority of the constitution is diluted and no longer serves as the guiding tool for the group;
- 2. Conflicts can arise because the rules "have been suspended";
- 3. Fraud and malpractices can be allowed to continue without the members realizing

9.1.3 Different type of meetings as stipulated in the constitution

Type of meetings	Rationale
Committee Meetings	 Held regularly, e.g. once every month by the project committee members; To discuss matters mainly concerning administration of the project.
2. Sub- Committee Meetings	 A project committee may divide itself into various subcommittees These hold their meetings as necessary to discuss specific matters of the project
3. General Meetings	 Organized and called by the committee once every year The purpose is to inform members about issues concerning their Project accounts and other specific matters (such as elections and project progress).
4. Special General Meetings	 Held when there is special business to be discussed by the members. These meetings are often seen as extra-ordinary meetings

ACTIVITY 10: DUTIES AND RESPONSIBILITIES OF WATER USER COMMITTEE OFFICIALS

Purpose

To enable the members know their duties and responsibilities in the Water User Committees **Methodology: Plenary presentation & Brainstorming**

10.1.0 Outcomes of the respective roles of Water User Committees

- 1. Attending meetings
- 2. Convene meeting General Meeting as empowered by-laws
- 3. Security of assets
- 4. Ownership of assets
- 5. Expenditure approval
- 6. Convening Special General Meeting (SGM) as per by laws
- 7. Budget approval
- 8. Approval of by-laws
- 9. Amendment of by-laws
- 10. Electing Committee members
- 11. Participation in the project activities and forums
- 12. Contribution to the group's activities and growth
- 13. Task force committees to undertake other key related developments

10.1.1 Roles and responsibilities of some Water User Committee positions

Positio	on	Role	Responsibilities
1.	Water user	To use the water responsibly and efficiently	Pay the agreed amount on time Report misuse of the water point
2.	Project Members	To ensure the project continues to provide value for money giving the benefits it was developed to provide To keep the leaders accountable in ensuring the service delivery	 Developing and following an effective constitution Electing an effective management committee Keeping the management committee accountable for their actions Attending project meetings when required and giving ideas on how best to run the project Participate in community work whenever necessary Offer to serve in the leadership
3.	Management Committee	To manage the project effectively and sustainably	 To organize and call General Meetings and other meetings To run project bank account To prepare project budgets To recruit and employ staff To plan and implement water development activities including tariff setting, metering, membership registration, society registration, etc To ensure equitable distribution of project benefits To keep and maintain project records To ensure project accounts are audited Conflict resolution
4.	Chairman	Provide leadership to the management committee to enable it to fulfill its roles	 Chair all project meetings Guide on project policy matters Ensure all project records are properly maintained Ensure smooth running of project activities Enforcement of by-laws
5.	Secretary	Keep all the records of the organization	 To record minutes of all meetings To maintain a Minute Book To maintain a Members Register To ensure that the water supply correspondence is correctly and efficiently attended to
6.	Treasurer	To be responsible for all finances of the organization	 Keep records of the WUA assets and finances To check all payments To sign all payment vouchers To ensure banking of all monies received on behalf of the water supply

ACTIVITY 11: RIGHTS OF WATER USER MEMBERS

Purpose

To make the leaders understand the duties and responsibilities of a member of Water User members

Methodology: Brainstorming and plenary presentation

Task

Identification rights for Water User Association members

11.1.0 Key outcomes from the discussions

Rights of members agreed as follows

- 1. Attending meetings
- 2. Convene meetings e.g. Special General Meetings as empowered by the constitution
- 3. Ensure security of assets
- 4. Expenditure approval
- 5. Convening General Meeting as per the constitution
- 6. Budget approval
- 7. Approval of constitution
- 8. Amendment of constitution
- 9. Electing committee members
- 10. Participation in project activities
- 11. Contributions to the Water User Committee activities
- 12. Scrutiny of the Water User Committee funds
- 13. Elect leaders of the Water User Committee

ACTIVITY 12: ELECTION OF WATER USER COMMITTEE LEADERS

Objectives

To make the leaders understand the importance of elections and also undertake peaceful elections.

Methodology: Plenary presentation & Brainstorming

12.1.0 What is Election?

There are some terminologies that should be made clear so as to understand what election is. The terminologies are;

- Election means the process of selecting a candidate to represent interests of others who have common agal.
- ❖ Appointment Choosing a person through writing.
- Nomination Choosing a person through a word of mouth (verbal statement).
- Electoral area means a region that is represented by or located to candidate.
- Returning Officer means a person appointed by the authority e.g. Social services to be in charge of an electoral process in a defined electoral area.
- Presiding Officer means a person in charge of an electoral process.

12.2.0 Who Should Carry Out Election?

In the social circumstances the community who may be described or categorized as constituents, members or congregation carries out elections. Socially these persons belong to various types of community groups such as political party, business/social groups or a church. In their own rights members of these groups are mandated to carry out elections.

Elections are carried out in a duly convened meeting. The meeting is normally programmed to take place within a given time, for example every year or after every two, three or five years. A notice of the election must be given and issued out to allow members (stakeholders) to participate effectively in the elections.

12.3.0 Who Should Be Elected?

An aspiring candidate normally presents him/her —self to the members (people / members) for consideration of the election. From experience the eligibility for election depends on;

- ❖ Age -A candidate should be between 21 and 70 years of age.
- Active-A candidate must be active in the affairs or interests of the Water User committee
- Has interest -A candidate must have interest in the Water User committee
- Literate -A candidate must have basic literacy.
- Committed -A candidate must not be delinquent or of unsound mind.
- Character-Must have good character and be a role model.

12.4.0 Model of Elections

There are various styles of conducting an election, the main ones being;

- Secret ballot
- Show by hands/Raising hands
- Queuing, popularly known as "Mlolongo"

All these styles or strategies have one common feature i.e. One-person one vote

12.5.0 Timing of Election

Elections are conducted periodically and must be spelt out very clearly in the regulations/ constitutions of the Water User Committee.

12.6.0 Election Procedures

Some of the election procedures are;

- Nomination of candidates
- Registration of members
- Voting.
- ❖ No proxy *
- One person, one vote
- No casting vote

NB: * some community groups allow proxy voting.

12.7.0 Institutions Created By An Election

An election creates offices such as those of a chairman, vice chairman, treasurer and secretary. These officers or posts are usually referred to as executive. Other officers are those of deputies.

12.8.0 Term of Office

Elected persons hold office for a specified period of time, which is defined in the constitution. The life of an office is normally linked to timing of elections.

12.9.0Appeal against an Election

Traditionally there are accepted ways of solving common disputes in a community, which may include election disputes. Rather than go through the expense of another election the authority may use a number of methods to settle election dispute such as:

- Panel of elders
- Arbitration.
- * "A Chance Method" to decide the winner. Such methods are;
 - Flipping a coin
 - Taking a number from a box

Conclusion- Holding proper elections is one way of sustaining interest in community organizations. However elections can be volatile where the resources of Water User Committee are more and therefore more people become interested.

ACTIVITY 13: CODE OF CONDUCT AND ETHICS FOR WATER USER COMMITTEE LEADERS

Purpose:

This code contains general rules of conduct and ethics to be observed by the members, so as to;

- Enable the Water User committee to offer service to its members and to facilitate the success of implementation of the water and sanitation projects of the Water User Committee,
- 2) Ensure that Community uphold the democratic principles of accountability, transparency and good governance
- 3) Improve the leadership and governance skills to its members
- 4) Building capability for teamwork
- 5) Instil judgement and effective decision making
- 6) Create effective communication skills

Plenary presentation

Introduction

A Water User committee is an autonomous association of persons within a community united voluntarily and in this case to meet their common water services needs and to improve their social standards, through jointly owned commercial and democratically controlled enterprise

The management of Water User Committee is vested in a duly elected management committee whose members are expected to perform their duties with accordance to the water user constitution. This requires performance of duty prudently and diligently with loyalty, integrity, impartiality, and on behalf of the members to whom they stand accountable and responsible

13.1.0 Application: Members shall adhere to this code in both their public and private lives

lives	
1. Integrity, Efficiency Responsibility to the Water User Association	A member shall: a) Perform their duties with diligence, prudence and efficiency b) Serve with courtesy, honesty ,partiality, integrity, probity and objectivity c) Be committed to duty and be available for the duties bestowed by the Water user committee d) Make sure that non-official activities do not interfere with their official duties or affect the dignity of their office e) A member shall ensure that he carries out their duties in away that is consistent with being part of their association f) Maintain at all times the ethical standards, which the community expects of him in transacting official business g) Except furtherance of official duties, not publicly comment on the matters in relation to which he has been professionally involved, or h) Expressly by implication, not represent that any public comments they make reflect the views or opinions of their association if that is not the case
2. Religious Neutrality	a) Regardless of religious belief and opinion maintain neutrality and not make comments that criticise a religion or way of religious belief
3. Ethnic Affiliation	a) Regardless of their ethnicity maintain neutrality and not make public comments that criticise an ethnic community
4. Political Affiliation	 a) A member shall not be a holder of apolitical office at the same time as they are a member b) A member is entitled to their own views on political matters, but shall not be permitted, in the course of the performance of their duties, to express those views publicly or seek to influence their colleagues or those who seek their services to subscribe to their political beliefs
5. Political Comments	Any member shall not: a)Make public comments that support or criticise apolitical party b)Make public comments that may compromise, or may reasonably be seen as to compromise, the political neutrality of the office
6. Canvassing Gifts etc	a) A member shall not canvass either directly or indirectly for any favours or personal interests in the committee or in the association b) A member shall i) shall not accept or request for gifts in exchange of favours ii) it is the duty of a member to make reasonable inquiry before accepting such gift c) An officer shall neither ask for nor accept property or benefit of any kind for himself or for any person, on account of anything to be done or omitted to be done, by him in the discharge of his duties by virtue of his official opposition d)An officer who is given a gift described above shall, even where the gift is deemed to be the gift of the Association e)Report the matter to management committee, which shall direct the appropriate mode of disposal of the gift and; f)Comply with any such direction
7. Conflict of interests	A member is required to observe the following requirements in relation to their private interests b) They shall not associate outside their official duties with any financial, or activities in circumstances where there could be suspicion that their official position or official information available to him was being turned to their private gain or that of their associates; c) They shall not engage in any occupation or business that might prejudice their status as members or bring the association in disrepute
8. Improper Enrichment	A member shall not use their position to improperly himself or to others; a) Without limiting the generality of the above, shall not:- Accept or reject gifts or favours from person who:- i) Has interest that may be affected by the carrying out of the members work or duties ii) Carries on regulated activities with respect to which the member organisation has a role iii) Has contractual or similar relationship the members organisation/association b) For the personal benefit of himself or another, use or allow the use of information that is required in connection with the members duties and that is not public c) Provided that the above part does not prevent a member from accepting a gift from a relative or friend given on special occasions recognised by custom d) Award contract or influence the award of a contract Himself i) A spouse or relative ii) A business associate iii) A corporation, partnership or other body in which they has an interest e) If any of the above is interested in a tender, shall declare that relationship or interest and abstain from voting
9. Conduct of Private affairs	a) A member shall conduct their private affairs in a way that maintains public confidence in the integrity of their office b) A member shall not evade taxes c) A member shall not neglect their financial obligations or neglect to settle them
10. Sexual Harassment	a) A member shall not sexually harass a member of the public or fellow member i)'Sexually harass' includes doing any to the following, if the person doing it knows or ought to know that is unwelcome ii) Making request or exerting pressure for sexual activity or favours iii) Making intentional or careless physical contact that is sexual in nature iv) Making gestures, noises, jokes or comments, including regarding another sexual activity

ACTIVITY 14: ENVIRONMENTAL HEALTH AND SANITATION

Overall objective

Understand the relationship between water, hygiene and sanitation for health improvements

Methodology: Group discussions using PHAST tools

14.1.0 GROUP WORK: 3-PILE SORTING CARDS EXERCISE-HYGIENE BEHAVIOUR Purpose

- 1. To identify what households consider to be good and bad hygiene practices
- 2. To identify those good and bad hygiene practices that households honestly carry put and those good practices that they do not
- 3. To identify those factors that prevents households from performing the good practice.

Task

- 1. Arrange posters in terms of good, in between and bad hygiene practices
- 2. Discuss and agree what actions can be done to improve the bad hygiene practices to good.

Sample presentation in plenary

Good practices	In between	Bad practices
 Use of dish rack Feeding the child with a clean spoon Storage of water in covered container Washing hands with running water Collecting of garbage into a rubbish pit Drawing water using covered containers Cleaning the environment Boiling water Washing hands after visiting the toilet Boiling of water Washing food before cooking Using different cups for drawing and drinking 	 Disposal of Faecal matter Washing clothes nearer to the water point Incomplete disposal of Faecal matter Uncovered water storage containers Improper coverage of domestic water Drawing water form unprotected well Washing hands with soap from the same basin Bathing in an open traditional bathroom Good practice of washing but using water from the same basin 	 Defecating in water bodies Defecating/urinating within the homestead bathing and drawing water from the same point open pail placed from chicken to drink water from open pail containing water and placed for animals (dog) to leak transport water from open container and leaves placed inside the water to avoid spilling defecating in open fields sharing food with animals washing face/drinking water from the water pan

Actions that can be done to improve community hygiene and sanitation situation as agreed in the plenary from all the groups

- Use containers with lid when transporting water
- Use of proper means of waste disposal e.g. Pit latrines
- Feeding and drinking troughs for animals
- Facilitate hygiene and sanitation promotion
- Protection of water points
- Enhance hygiene and sanitation promotion
- Avoid taking water directly from the storage and containers/have cups for drinking water
- Avoid urinating in the water bodies
- Provide drinking troughs for livestock
- Control Environmental pollution
- Avoid bathing in rivers

14.2.0 GROUP WORK 2: SANITATION LADDER EXERCISE-SANITATION IMPROVEMENTS

Purpose:

Assess the level of sanitation standards. It can be used to promote sanitation awareness and measure practices.

Task

- 1. Arrange the sanitation options from the best to the worst
- 2. Indicate where most communities are and where they desire to be
- 3. What can be done to improve the situation
- 4. Why the community is in the current situation
 - a) Why communities are in the current situation?
 - b) Lack of resources
 - c) Lack of knowledge
 - d) Satisfied with situation
 - e) Low hygiene and sanitation awareness/
 - f) Community resistant and taboos
 - g) Low capital/funds to invest in sanitation improvements

b) Sanitation improvements and difficulties experienced as presented in plenary

Reasons for sanitation improvements	Difficulties in sanitation improvements
 Technical experience available in the communities Availability of local resources i.e. bricks Hygiene and sanitation awareness Appropriate technology adaptation 	 Topographical variations of different project areas Existing bushes provide cover for open defecation Cost implications i.e. Materials Negative behaviors change Beliefs and taboos Low priority for sanitation needs Perceived no incentives for sanitation improvements

Summary of good sanitation situation

- ✓ Cleaner water sources
- ✓ Less or reduced cases of diarrhoel diseases
- √ Savings on medical expenses and care
- ✓ Cleaner environment
- ✓ Release of resources to other community priority projects
- ✓ Technology transfer and local empowerment
- √ Adapt a menu of low cost sanitation options

14.3.0 GROUP WORK 1: FAECAL ORAL ROUTE (Transmission Routes) EXERCISE-DIARRHOE DISEASE TRANSMISSION

Purpose

To help participants discover and analyze how Diarrheal diseases can

be spread through human hygiene practices and the environment.

Report for Water Resource Management Training for Spring Water points Protected in Western Water Livelihoods Project pg. 28

Task

Use the drawings to try and create a diagram showing the different ways in which

faecal matter might come into contact with person's mouth.

Draw arrows between different drawings to show ways that this may happen.

Sample Group presentation

Routes

- 1. Faecal matter fly utensils, food, hands, mouth
- 2. Faecal matter, fly, food, hands, mouth
- 3. Faecal matter, hands, mouth
- 4. Faecal matter, contaminated water source, unprotected/not covered water storage facilities, drinking of contaminated water (mouth)

GROUP 1: FAECAL BARRIERS EXERCISE

Purpose

- Ways and means of controlling diarrhoeal diseases
- Ways of controlling faeces from contaminating food.
- Communities to identify faecal oral routes and giving suggestions on how to block the routes.

Task

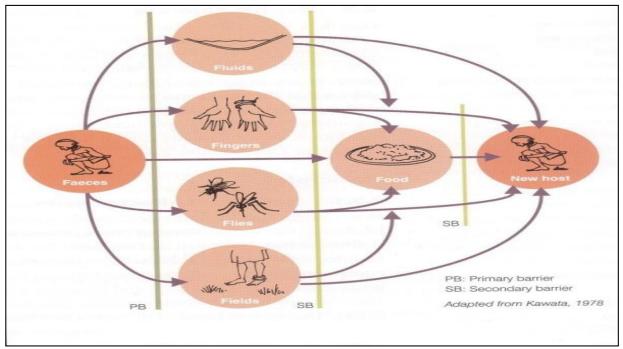
Identify the faecal barriers to the faecal oral transmission and place the barriers on a diagram.

Sample group presentation

List of barriers

- Disposal of faecal material to toilets
- ♦ Cooking food and serving hot
- ♦ Covering food
- ♦ Cleaning the environment
- Storing covered water with a drawing cup
- Washing hands
- ♦ Boiling water
- Cleaning toilets
- ♦ Drawing water from a well
- Putting up a latrine
- ♦ Boiling water

F-Diagram for disease transmission and control



PB-Primary barriers are latrines or sanitation facilities

SB-Secondary barriers are composed of hand washing with soap, safe water sources and others listed above.

GROUP1: BARRIER MATRIX EXERCISE

Purpose

To analyze how effective the blocks are and how easy or difficult they would be put into practice.

Task

Analyze the barriers in terms of their impact or effectiveness and how easy the could be implemented using the matrix provided

Sample presentation from the group

BARRIER MATRIX	EASY TO DO	IN BETWEEN	DIFFICULT TO DO
VERY EFFECTIVE HIGH IMPACT	Washing hands with soap after visiting latrinesUsing latrines	 Wearing shoes when visiting latrines Maintenance of latrines 	Constructing latrinesConstruction of wells
IN BETWEEN/MEDIUM IMPACT	♠ Covering food	Use of clean safe waterConstructing animal pens	Water storage
NOT EFFECTIVE/LOW IMPACT	♠ Boiling water	-	.

DAY THREE: FRIDAY, 27TH OCTOBER, 2023

THEME: OPERATION & MAINTENANCE, CONCLUSION & ACTION PLANS ACTIVITY 15: OPERATION AND MAINTENANCE OF SPRING WATER POINTS

Purpose

To facilitate effective operation and maintenance of water points for sustainability and effective use of water points. Key issues that determine effective operation and maintenance are stated

- a) Ensuring the water point is effectively used and routine maintenance is carried out
- b) Promoting preventive maintenance to reduce maintenance costs
- c) Improved community financial management system to address replacement of spare parts and other key components

15.1.0 Description of Operation and Maintenance activities of Spring water points

Water should flow out freely all the time. In order to prevent contamination and leakages the following activities should be undertaken:

- ✓ Ensure the surrounding is clean and properly fenced
- ✓ Protect vegetative cover in the recharge are and immediate surroundings of the spring
- ✓ Prevent roots from clogging the spring
- ✓ Regularly monitor water flow from spring box (color, amount of flow)
- √ Wash out accumulated silt annually
- ✓ Prevent soil erosion and maintain storm drain
- ✓ Conduct participatory hygiene promotion to enhance hygiene practices.

15.1.1 Operation and maintenance requirements

ACTIV	TITY	FREQUENCY	MATERIALS	TOOLS & EQUIPMENT
1.	Clean spring surroundings	Weekly		Broom, bucket, jembe Panga /slasha
2.	Check color (turbidity)	After each rain season/flooding		
3.	Repair fence and clean surface drains	Occasionally	Wood, rope ,barbed wire	Panga, axe, knife ,Jembe, spade ,pick axe
4.	Repair Cracks	Annually	Cement, sand ,gravel	Bucket, trowel, jembe, spade wheelbarrow
5.	Repair piping	Occasionally	Spare pipe, cement, sand, gravel	Bucket,trowel,wrench,flat spanners

15.1.2 ROLES AND RESPONSIBILITIES IN OPERATION AND MAINTENANCE OF SPRING WATER POINTS

ACTOR	ROLES &RESPONSIBILITIES	SKILLS REQUIRED
1. Users	Manage the usage of the spring (e.g. Preventive maintenance ,fundraising ,hygiene promotion	 Basic skills in spring protection and operation &maintenance Hygiene promotion
2. Caretakers	Conduct preventive maintenance ,repairs ,keep records and enforce rules	 Basic skills in spring protection and operation &maintenance Hygiene promotion Leadership and organizational skills
3. Water User Committees	Making decisions, planning ,organizing and controlling the overall operation &maintenance	 Basic skills in spring protection and O&M Hygiene Promotion Democratic Leadership Skills Facilitation and management skills

15.1.3 COMMON PROBLEMS AND REMEDIES

PROBI	LEM	CAUSES	REMEDY
1.	Decreased flow of water	Clogged collection system Spring drying up Blocked supply pipe Leakage or bypass Silted spring box	n 1. Unblock (clean collection pipes, take out gravel/filter media and replace it) 2. Try increasing size ot catchment 3. Unblock and clean supply pipes 4. Repair leaks 5. Scour and clean spring box
2.	Clogged water collection system	Siltation Plant roots	Dig out catchment, clean pipes, ensures pipes are laid at 2degrees gradient Dig out catchment, remove roots
_	C	1. Cracks in the seal	1. Mend cracks
3.	Contamination of spring water	Human activities that promote pollution	Conduct participatory hygiene promotion
4.	Erosion or collapse of spring	Wrong design Construction errors	Redesign spring catchment Employed skilled labour force and increase supervision during construction
			3. Provide adequate drainage
		3. Large surface run-off Flows 4. Animal tramping	system 4. Repair fence
5.	Damaged piping	Faulty Construction Animal tramping Corrosion Vandalism	Provide adequate cover (burry pipe) Repair fence Use appropriate pipes(PVC) Enforce security measures /education Enforce security measures/education

ACTIVITY 16: ENVIRONMENT PROTECTION BY LAWS FOR MANAGEMENT OF SPRING WATER POINTS

Purpose

Participants understand the need for environment protection by-laws to safeguard the springs water points from pollution and destruction by surface run-offs

The following are by-laws linked to local realities and have been proposed to safeguard spring protection water points

KEY ISSUES	ACTIVITIES
1. Tree Planting in Catchments Areas	 a) Felling of indigenous trees in catchments areas to be prohibited. b) Planting of unacceptable trees (Eucalyptus) trees in catchments areas prohibited. c) Eucalyptus trees found in the catchments areas to be uprooted/destroyed. d) Anyone planting eucalyptus trees in the catchments area will be surcharged for their removal and rehabilitation costs. e) Planting of eucalyptus trees near dug wells/boreholes prohibited. Any trees planted after the development of the water to be uprooted at the owners' risk and cost.
2) Construction of soil conservation structures in farm lands	a) Construction of soil conservation structures to be enhanced in accordance with approved plans.
3) Three (3) M strip next to rivers	 a) Reinforce the Water Act regarding the 3 M strip next to small streams. b) Reinforce the Water Act regarding the 10 M and 7strip next to the river/streams
4) Fencing of catchments area and other water sources	 a) All water points constructed must be fenced in the approved way. b) Any damage to the fence will be repaired and the cost met by the water point users. c) Unauthorized trespassers over the fence for both humans and animals prohibited. d) Owners of animals which trespass to water point to be surcharged
5) Bush/Vegetation Cover	a) Unauthorized farming activities in the catchments area prohibited.b) Burning of dry bushes near water points is prohibited.
6) Land Use Management	 a) Farming across along the contours next to the spring water point is prohibited b) Grazing of animals near water points prohibited. c) Crop rotation to be practiced. d) Terraces to be improved and should not be directed towards spring water sources.
7) Pollution/Prevention of Siltation	 a) No sinking of latrines to next to the spring water points due underground seepage which leads to pollution. b) No sinking of water latrines 70M upstream of water sources. c) Every home must have a latrine. d) Disposal pits /composite pits must be made in every home.

ACTIVITY 17: OVERVIEW OF DRIP IRRIGATION SYSTEMS

Purpose

Participants to understand the rationale for drip irrigation for increased food production and productive use of water for improved livelihoods

17.1.0 Introduction to drip irrigation systems for productive use of water

Drip irrigation can reduce the water requirement by as much as 25to 50 percent compared to conventional irrigation. The main advantage of drip irrigation is that soil moisture remains relatively constant, and it is always available to the roots. In other watering methods, there is extreme fluctuation in water content, temperature and aeration of the soil. With drip irrigation, the water soaks immediately when the flow is adjusted correctly. There is neither flooding nor run-off, so water is not wasted. All of the water is accessible to the roots as it is applied near the root zone. Watering weed patches, walkways and other areas between plants rows is avoided. Water lost to evaporation is negligible and interference by wind is minimal. Fertilizers can be delivered directly to the plant roots through drip. This results in increased efficiency at low fertilizer rates.

Careful choice of the components means half the battle is won. Therefore, the following points should be taken into account when selecting a drip system.

- a) Ease of installation
- b) Ease of cleaning the emitters
- c) Durability
- d) Types of filters
- e) Possibility of flow control

The life of a drip system can be extended by proper design, proper filtering, avoiding puncture with tillage tools, mulching over plastic lateral drip lines to shield them from sunlight, and flushing and draining line periodically. The financial investment is reasonable small if you are willing to plan, assemble and install the system. Savings in water combined with increased yields and quality of vegetables and flowers more than pays for the cost of parts to maintain a drip system.

17.2.0 Selection, number and spacing of emitters

PLANT	FLOW RATE(lit per hr)	NUMBER OF EMITTERS	PLACEMENT OF EMITTERS
1. Low shrubs (2-3ft)	4	1	At plant
2. Shrubs and trees(5-10ft)	8	2-3	2feet from tree equally spaced
3. Shrubs and trees(10-20ft)	8	3-4	3feet apart equally spaced
4. Shrubs and trees (20ft)	8	6 or more	4feet apart equally spaced
5. Ground Cover	4	1	At plant
6. Vegetables (Close space)	2-4	1	Every 16-24 inches
7. Vegetables(wide spaced)	4-8	One per plant	At plant

17.3.0 Key issues for facilitating effective drip irrigation

Key issues	Rationale		
1. Subsurface Drip	Subsurface drip irrigation technology is a variation of traditional drip irrigation where the tubing and emitters are buried beneath the soil surface, rather than laid on the ground or suspended from wires. The products being used today in subsurface drip irrigation come in three configuration: hard hose, drip tape and porous tubing. This method reduces maintenance ,injury and vandalism found with surface drip		
2. Local methods	Careful observation in your area can reveal other methods developed locally, which are suitable for the local needs and are often less costly. Some of these systems include trench farming, earthen pipes for field crops or diffusers for fruit crops.		
3. Managing system well	Whatever system you choose, maintenance is the key to success. Every field has different needs. Therefore, the flow rates and time should be adjusted by some experimentation. The hoses, faucets and water devices should be checked periodically for leaks and malfunctions to help avoid wastage. A little bit of regular maintenance can help not only in saving water but in also extending the life of the system.		
4. Timing of irrigation turns	Irrigation should be scheduled when soil temperatures is moderate. In dry season is better to irrigate the field during the late afternoon or at night. It gives the plants sufficient time to absorb water before dry and desiccating weather prevails the next day. During cold /winter water should be applied during the morning hours, when the soil starts warming up.		
5. Critical growth stages	There are critical growth period of crops when water stress is most detrimental. For fruiting, the most critical growth stage regarding water deficit is at flowering and fruit formation. Moisture shortage at this stage may cause premature fall of flowers or young fruits, resulting in heavy yield reduction. For grains, grand growth and tillering stages are also critical. In terms of food production, the period of yield formation or enlargement of edible product (fruit, head, root, tuber etc) is critical for all vegetables, and is the most critical for non-fruiting crops. Moisture deficits at the enlargement stage normally result in a smaller edible portion because nutrient uptake and photosynthesis are impaired. On the contrary, over –irrigation during the ripening period may reduce fruit quality. Excess water during fruit –ripening reduces the sugar content and adversely affects the flavor of crops like tomatoes, sweet corn and melons. Moisture deficits at ripening time do not significantly reduce the yield of most crops. So the field should be irrigated with extreme caution at this time.		
6. Rotational Irrigation	With solar pumps, there is no need to worry about the number of hours of pumping, as it will not add to your electricity bill. Use this possibility to your advantage by careful planning. The usual practice in many areas id flooding the entire field in one day, and then letting it soak for 10days or so. With solar pump, It is not possible to irrigate a large field in a single day. The solar pump tends to give less output as compared to the much larger electric and diesel pumps used conventionally. On the other hand there is no additional costs in running the pump every single day. So by using a rotational irrigation pattern whereby only small patches (0.5-1 acre) are irrigated every day, you can cover about 5-10 acres over a 10—day period. By the time you have irrigated the last patch, you can start again with the first one.		
7. Water only as much as needed	Frequent light irrigation is often harmful. It wets only the surface soil to a depth of less than 1 inch. Most plant roots go much deeper. Light sprinkling only settles the dust and does little to alleviate drought. So, it is better to give plants a weekly soaking. When watering ,the soil should be allowed to become wet to a depth of 5 to 6inches. This type of watering allows moisture to penetrate into the soil area where roots can readily absorb it. A soil watered deeply retains moisture for several days. Excess irrigation can be even more harmful. Too much water in the soil causes oxygen deficiency, resulting in damage to the root system. Plant roots need oxygen to live. When a soil remains soggy, little oxygen in present in the soil. When this condition exists, roots die and no longer absorb water. Then leaves begin to show signs of insufficient water. These symptoms can be misleading. So proper care should be taken while determining the amount of water to be applied. The thump rule is to moisten the soil thoroughly at each watering, and then allow plants to extract most of the available water from the soil before watering again.		
8. Storage	Storage of water, especially for an orchard or nursery, can improve the efficiency to a great extent. It can enable you to irrigate according to your needs. It can also serve as excellent back up during a dry spell in monsoon. It allows irrigation during early morning or late evening when there is less evaporation, and the plants can make more efficient use of water.		
9. Agronomical Practices a) Mulch	Natural mulch consists of dead leaves, twigs, fallen branches and other plant debris, which accumulates on the earth's surface. Mulch insulates and protects soil from drying and hard barking effects caused by evaporation of water. It breaks the force of rain and irrigation water thereby preventing erosion, soil compaction and crusting. Mulched soils absorb water faster. It also helps to control weeds and works as a food for earthworms, microbes and other beneficial soil life by composting at the moist earth surface.		

		Any plant material that is free of weed seed and diseases is suitable for mulch. Weed-free hay or straw, leaves, grass clippings, compost etc are all-great. Fresh grass clippings are fine for use around well-established plants, but they should be cured for a week or so before placing them around young seedlings.
b)	Avoid over fertilization	The application of excess fertilizers increases the need for water and can lead to soil salinization. If the soil is over –fertilized frequently, especially with chemical fertilizers, the soil life can be greatly hampered, causing decrease in productivity. So fertilizers should be applied with caution. Fertilizers, which contain slow release, water insoluble forms nitrogen are preferable to normal fertilizers.
c)	Use of organic manures and soil amendments	Organic manures and soil amendments help to build the soil organic matter, one of the ingredients in soil quality. Soils rich organic in organic matter hold water well and offer a favorable environment in which the plant roots grow well. So organic manures should be a great way to improve soil productivity if other manures are not feasible.
d)	Observe and manage the soil well	Maintaining the soil condition improves the water uptake to a great extent. The goal should be to provide the plant roots with moist, well-drained, and well aerated growing environment. Proper tillage and appropriate soil amendments, improve the structure and water holding capacity of the soil. Heavy clay soils have a high water holding capacity and will benefit from adding some type of coarse aggregate, like rice or wheat straw, which will improve the ability of water to move through the soil. Sandy soils, on the other hand, do not hold enough water and nutrients for plant use. Adding the fine — textured organic matter to these soils is often helpful. Careful observation can also help to determine the timing and the quantity of water applied. The symptoms seen on plants can be misleading.
e)	Earn Water. Catch rainfall as much as possible	This is probably the best strategy in water management, for a country like ours, where we gain water during brief period and then used around the year. This is especially true when the ground water level is dropping steadily all over the country. Therefore, every effort should be made to catch the rainwater and store it to allow it to percolate so that it will recharge the ground water reservoir from which the pump takes out water. Field ponds, ditches around the field crops, earth dams in any stream flowing across the field can substantially improve the water storage. Even simple practices like tilling the soil across the slop and ploughing the field before and after showers can help the field to retain a lot more.

ACTIVITY 18: VIDEO SHOWS ON WATER, SANITATION & PRODUCTIVE USE OF WATER MODELS

To complement the prior sessions, the workshop participants viewed 2 documentaries on water and sanitation. The first one, 'Prescriptions for Health' graphically depicts appalling water and sanitation practices (and standards) in the Philippines and Asia and provides useful tips on practices that prevent contamination and transmission of water related diseases.

The second documentary presented the productive use of water-depicting Kabuku community water project in Kiambu County and the positive impacts on community livelihoods by use of water for dairy production, vegetable production, poultry production etc. It highlights the key aspects of effective community participation and contribution for community water supply sustainability.

ACTIVITY 19: COMMUNITY ACTION PLANS FOR SPRING WATERPOINTS MANAGEMENT -KIMUGUI LOCATION

ACTIV	VITY	WHEN	WHERE	HOW	WHO IS RESPONSIBLE
1.	Registration of members	Within 2weeks 1/11/2023 to 14/11/2023	Khamasa spring Namausi Spring Mabuusi spring	Through village elders with Kshs.100 as registration fee	Water User Committee Secretary & Treasurer
2.	Develop Constitution for Water User Committee	20 th Nov.2023 To 20th Dec.2023	Khamasa spring Namausi Spring Mabuusi spring	Community meetings	Chairperson of respective Water User Committee
3.	Facilitate securing registration certificate and opening Bank account	5 th Jan.2024 to 7 th Jan.2024	Liaise with Social Services Officers	Utilize registration funds	Secretary of respective Water User Committee
4.	Formation of subcommittees	10 th Jan.2024 to 15 th Jan.2024	Khamasa spring Namausi Spring Mabuusi spring	Appointing active community members	Respective Water User Committee
5.	General Cleanliness at the Water points	Daily Routine	Khamasa spring Namausi Spring Mabuusi spring	Community members clear drainage &collect rubbish	Respective Community Health Volunteers
6.	Planting of indigenous trees and grass for vegetation cover	17 th Jan.2024 to 18 th Jan.2024	Khamasa spring Namausi Spring Mabuusi spring	Community work	Respective Water User Committees
7.	Operation and maintenance procedures at the water points	Periodically after 2months	Khamasa spring Namausi Spring Mabuusi spring	Check operation &maintenance manuals	Operation &maintenance subcomittee

ACTIVITY 20: COMMUNITY ACTION PLANS FOR SPRING WATERPOINTS MANAGEMENT –FUCHANI LOCATION

ACTIVITY	WHEN	WHERE	HOW	WHO IS RESPONSIBLE
1. Registration of members	4 th Nov.2023	Efumbi Spring Musituti Spring Muricho Spring	Community members to pay Kshs.50 for registration	Respective Water User Committee Secretary &Treasurer
2. Develop Water User Committee Constitution		Efumbi Spring Musituti Spring Muricho Spring	Community meetings	Respective Water User Committee Chairperson
3. Sanitation Promotion	18 th Nov.2023	Efumbi Spring Musituti Spring Muricho Spring	Community meetings	Respective Community Health Volunteers
4. Planting of tree and grass to improve vegetation cove for water points	er	Efumbi Spring Musituti Spring Muricho Spring	Community work	Respective Water User Committee Chairperson
5. Transplanting vegetables for Horticulture production	28 th Nov.2023	Efumbi Spring Musituti Spring Muricho Spring	Community work	Respective Water User Committee Chairperson
6. Undertake irrigation for scaling up food production	29 th Nov.2023	Efumbi Spring Musituti Spring Muricho Spring	Community work-3person per day	Respective Water User Committee Chairperson
7. Weeding of vegetables	15 th Dec.2023	Efumbi Spring Musituti Spring Muricho Spring	Community work	Respective Water User Committee Chairperson

ACTIVITY 21: COMMUNITY ACTION PLANS FOR SPRING WATERPOINTS MANAGEMENT –SOUTH BUKUSU LOCATION

ACTIV	/ITY	WHEN	WHERE	HOW	WHO IS RESPONSIBLE
1.	Registration of members	1st Nov.2023	Namutende Nakholo B Nakholo C	Registration of members	Chairperson of respective Water User Committee
2.	Activation of the Water User Committees ®istration	15 th Nov.2023	Namutende Nakholo B Nakholo C	By-elections	Community Health Volunteers
3.	Land preparation for horticulture	20 th Nov.2023	Namutende Nakholo B Nakholo C	Community work	Chairperson of respective Water User Committee
4.	Planting of vegetables	25 th Nov.2023	Namutende Nakholo B Nakholo C	Community work	Chairperson of respective Water User Committee
5.	Planting of grass &indigenous trees	30 th Nov.2023	Namutende Nakholo B Nakholo C	Community work	Chairperson of respective Water User Committee
6.	Sanitation and drainage clearance	5 th Dec.2023	Namutende Nakholo B Nakholo C	Community work	Community Health Volunteers of respective Water User Committee

ACTIVITY 22: WORKSHOP EVALUATION FOR WATER RESOURCE MANAGEMENT TRAINING

ACTIVITY	WELL UNDERSTOOD	UNDERSTOOD	NOT UNDERSTOOD	
Participatory Introductions and expectations	80%	15%	5%	
2. Workshop Norms	85%	15%	0	
3. Workshop Objectives	90%	5%	5%	
 Overview of National Water Policy Water sector reforms 	85%	10%	5%	
Community Based Management	80%	15%	5%	
Leadership styles and Qualities	90%	10%		
 Financial Management and Record Keeping 	60%	40%		
Gender and Development in Water and Sanitation	75%	20%	5%	
9. Group Development Dynamics	80%	20%		
 Overview of Water User Association constitution and formulation 	75%	25%		
 Roles and responsibilities of Water User Association 	75%	25%		
 Environmental health and sanitation 	80%	20%		
 Code of ethics for WUA Leaders 	80%	20%		
14. Election of WUA Leaders	70%	25%	5%	
 Overview of water point maintenance for Springs 	75%	25%		
 Overview Drip Irrigation Water system-Application ,Challenges , Options & Solutions 	65%	25%	10%	
17. Environment Protection&Management for springwater points	70%	30%		
18. Documentary Videos- Productive use of Water & Prescription for Health	80%	20%	0	
19. Community Action Plans	60%	40%		

ANNEX 1: WORKSHOP PHOTOS WATER RESOURCE MANAGEMENT TRAINING



1.0 Participants making presentations on Leadership Styles and qualities



2.0 Group Presentations on Gender Resource Analysis during the training



3.0 Group discussions on Gender task analysis and roles of women in water resource management



4.0 Group discussions on Sanitation ladders & sanitation improvement



5.0 Group presentation on Sanitation ladders &sanitation improvement



6.0 Group discussions and presentation on Faecal Oral Routes, Barriers & Barrier matrix



7.0 Participants watching documentary videos on prescription for health and productive use of water



8.0 Group photo of participants and facilitators at the end of the workshop



9.0 Participants in plenary during the workshop

ANNEX 2: LIST OF PARTICIPANTS

NAME	VILLAGE	GROUP/SITE
1. Pamela Wekesa	Kibachanje	Nakholo B
2. Violet Waswa	Kibachanje	Nakholo B
3. Mathew Okumu	Khamasa	Khamasa
4. Catherine Wasike	Khamasa	Khamasa
5. Josephine Wambani	Musituti	Musituti
6. Emily Lusweti	Nakholo C	Nakholo C
7. Philis Wamalwa	Sango A	Kibachenje
8. Everlyne Manyasi	Sango A	Sango A
9. Centrine Nafula	Sabatia	Machomesi
10. Metrine Namai	Namausi	Namausi
11. Elisheba Wafula	Khamasi	Wanakhaki
12. Joash Mangoli	Sabatia	Machomesi
13. Damson Masinde	Msituti	Msituti
14. Benard Wekesa	Namausi	Namausi
15. Moses Okumu	Namausi	Namausi
16. Joseph Wamalwa	Khamasa	Khamasa
17. Moses Wamalwa	Khamasa	Khamasa
18. Cleophas Mamaloba	Fuchani	Fuchani
19. Geoffrey Nganga	Fuchani	Fuchani
20. Linet Akinyi	Busia	Busia
21. Harriet Simiyu	Nzoia	Mumbule
22. John Muonji	Musituti	Musituti
23. George Siringo	Nakholo	Nakholo
24. Gilbert Sifuna	Musituti	Musituti
25. Vincent Wasilwa	Nzoia	Muricho
26. Dominic Wanyonyi	Sabatia	Machomesi
27. John Wandwasi	Kibachenje	Nakholo C
28. Teresia Wafula	Matundo	Kibachenje
29. Francis Wamalwa	Mabuusi	Mabuusi
30. Maxwell Malilinzo	Fuchani	Fuchani
31. Isaac Juma	Kibachenje	Nakholo C
32. Rebecca Wawire	Nzoia	Muricho
33. Ridah Sainja	Kibachenje	Namuwentunde
34. Rose Kuluhoma	Project Accounts Officer	KUMEA
35. Benta Opeyo	Administration Assistant	KUMEA
36. Evelynn Wekesa	Project Officer	KUMEA
37. Peter Okaka	Programs Coordinator	KUMEA

ANNEX3: WORKSHOP AGENDA FOR WATER RESOURCE MANAGEMENT TRAINING FOR SPRINGS PROTECTION WATER POINTS

VENUE: NAMBAYA

	DAY 1: INTRODUCTION AND COMMUNITY MANAGEMENT PROCESS			
АМ				
	Participatory Introductions and expectations -(Everlynn)			
	Workshop Norms -(Everlynn)			
	Workshop Objectives-(Everlynn)			
	Overview of National Water Policy (County Water Officer/Okaka)			
	Community Based Management (Peter Okaka)			
	Leadership styles and Qualities-(Okaka)			
	Financial Management and Record Keeping (Peter Okaka)			
	Gender and Development in Water and Sanitation (Facilitator)			
DA	Y TWO: GROUP DEVELOPMENT, HYGIENE& SANITATION			
	Group Development Dynamics (Peter Okaka/Chief)			
	Overview of Water User Association Constitution and formulation(Peter Okaka)			
	Roles and responsibilities of Water User Association(Okaka)			
	Environmental health and sanitation (sub county Public Health Officer)			
	Code of ethics for WUA Leaders(Okaka)			
	Election of WUA Leaders(Mercy Okaka)			
	Rights of WUA Members(Okaka)			
DA	Y THREE: OPERATION & MAINTENANCE, CONCLUSION &ACTION PLANS			
	Overview of water point maintenance-Application , Challenges , Options & Solutions (Okaka/Water Officer)			
	Environment Protection and By-laws for improved vegetation cover for spring water points			
	Documentary Videos-Productive use of Water & Prescription for Health (Peter Okaka)			
	Action Plans (All participants & facilitators)			