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1 Cultural Challenges Affecting Effective Community Participation
2 in Potable Water Management in Selected Rural Communities in
3 the Upper West Region of Ghana

4 Shirley Dankwa

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7 **Abstract**

8 The purpose of the study was to examine the challenges affecting effective community
9 participation in potable water management in the Wa-West District of the Upper West Region
10 of Ghana. A qualitative approach and a case study design were employed for the research.
11 The core objective of the study was to examine the challenges affecting effective community
12 participation in potable water management in the Gbaalwob, Chogsia, and Gadi, communities
13 in the Wa West District in the Upper West Region of Ghana. The sample size of the study
14 was seventy-two participants. A purposive sampling technique was employed in selecting the
15 participants for the study. This included thirty residents each from the three communities,
16 namely; Gbaalwob, Chogsia, and Gadi. Also, three key officials from the District Assembly
17 and three opinion leaders each from the Gbaalwob, Chogsia, and Gadi communities sampled
18 for both the interviews and focus group discussion. A semi-structured interview guide and a
19 focus group discussion checklist were employed in the data collection. Data was analysed
20 thematically. Emerged themes from the interviews and the focus group discussion were
21 analysed based on the emerging themes from the data collection. It was revealed that
22 inadequate finance is a foremost impediment to effective community participation in water
23 management in the district. As a result, people are unable to make regular contributions to
24 maintenance services of boreholes when they break down. It was therefore suggested that
25 there should be the provision of credit facilities to households who are deprived of diversifying
26 their livelihood to enhance household to effectively contribute monthly towards the borehole's
27 maintenance in the various communities.

28

29 **Index terms**— challenges, community participation, ghana, potable water, water, water management

30 **1 I. Introduction**

31 ccording to Obeng, Iddrisu and Eshun (2020), "Potable water is a basic need in every community and should
32 be made accessible and affordable to community members daily" (p. 21). It is highly believed that "Just as in
33 many African countries, the central government and external support agencies in Ghana have been responsible for
34 planning, constructing, and maintaining the rural water supplies with little or no involvement of the beneficiary
35 rural communities" (Salim, 2002). Several approaches to community participation in managing resources have
36 been in place for many years. But it seems that "After many years of failure of top-down or centralized planning
37 and provision of such services, the emphasis has shifted to a decentralized community-oriented approach"
38 ??McCommon, Warner, & Yohalem, 1990). Subsequent series of community participation of potable water
39 culminated in "a review of policies on water and sanitation to keep pace with the changing conditions in Ghana
40 and on the international scene, the National Community Water and Sanitation Programme (NCWSP) was
41 launched in 1994. Subsequently, the Community Water and Sanitation Agency (CWSA) was established by Act

2 II. LITERATURE REVIEW

42 564 in 1998 with the mandate to facilitate the provision of safe drinking water and related sanitation services to
43 rural communities and small towns in Ghana (Community Water and Sanitation Agency”[CWSA], 2007). The
44 provisions in the very Act which recognised the CWSA also transferred rights and operation responsibilities to
45 the communities and the district.

46 Nevertheless, it was understood that participation in community water programmes was restricted to the
47 “mobilization of self-help labour or the organization of local groups to ratify decisions made by project
48 planners outside the community” (Laryea, 1994 cited in Obeng et al., 2020). This shallowmeaning had
49 characteristicboundaries to the effectiverural water implementation programmes. Consequently, the prominence
50 was once moretransferred to community management. Currently, “drinking water and sanitation policies assume
51 that the facilities can and should be best managed by local user communities. It is expected that the so-called
52 communal management will guarantee the technical sustainability of the facilities needed to maintain access to
53 the facilities provided” (Eguavoen, 2006). This should have always been the ideal situation. However, this culture
54 is not what is experienced in most communities concerning participation in potable water management in the
55 northern part of Ghana.

56 Therefore, the main objective of the study was to examine the challenges affecting effective participation in
57 community management of potable water in the Wa West District. This research question guided the study -
58 What are the challenges affecting effective community participation in potable water management? The research
59 was delimited to the challenges affecting effective participation in community management of potable water in
60 Gbaalwob, Chogsia and Gadi Townships in Wa West District in the Upper West Region of Ghana Significantly,
61 the outcome of this research is to help various stakeholders in promoting and developing policies for safeguarding
62 safe drinking water sources in rural areas and the need for promoting participation and ownership of potable
63 water by locals. It also intends to create awareness among the people of Wa West District on the benefits of
64 effective participation in community management of potable water. It is to equally providean opportunity for
65 residents of Wa West to determine the importance of potable water being a shared responsibility. In the sense
66 that community members have a role to play as well as government or service providers.

67 2 II. Literature Review

68 This section reviews related literature on participation in community management of rural potable water supply
69 systems. It reviews the literature on potable water management, community participation and challenges of
70 community participation in accessing potable water.

71 According to Obeng et al. (2020), “safe drinking water is very important in the daily lives of human beings,
72 and also vital for public health.”This has been the agenda for countries in the West all these years. Countries
73 of the European Union (EU) have made highquality tap water easily accessible to their citizens through the
74 EU drinking water policy, which has been in force since the mid-seventies (European Commission, 2014). The
75 policy, since its institution in the mid-1970s, has ensured high drinking water quality across the EU countries by
76 further ensuring restrictedcompliance with the standards of the policy by member countries and state institutions.
77 According to the European Commission (2014), about 65 million EU citizens who are predominantly dwelling in
78 rural and remote areas rely on small drinking water supplies. This ideal situation is not the same everywhere on
79 the planet.

80 Water Supply and Sustainability in Sub-Saharan Africa (SSA)has been a grappling issue all this while. It
81 is believed that ”Africa has the lowest quality water service coverage of any continent and accounts for almost
82 onethird of the global population without access to improved water supply” (Harvey & Reed, 2007). The disparity
83 gap in accessingsafe drinking water in Africa has been higher in rural areas as compared to urban areas. Rural
84 water coverage in 2000 in Africa was found to be around 45% still leaving about 237 million people unservedwhile,
85 urban water coverage was about 83% in the same yearwith only about 37 million urban dwellers unserved
86 (WHO/UNICEF, 2000). This presents evidence that rural communities in Africa are lagging significantly behind
87 urban areas in potable water supply.

88 The sustainability of potable water services in Africa has also been found to be a challenging task after the
89 withdrawal of donors and other agencies that provide water services for communities. The reasons for this low
90 sustainability of water services are related to environmental and technical issues, as well as social and management
91 issues. Therefore, adequate attention should also focus on sustainability as we focus on the goal of increasing
92 potable water service coverage through the implementation of new water systems and facilities (Harvey & Reed,
93 2007).

94 In Africa, potable water is ”a scarce resource both in quantity and quality and when available it is mostly of
95 poor quality” (Mtinda, 2006). This is particularly experienced in the rural and urban slum areas. Inadequate
96 potable water and basic sanitation services present themselves asa major challenging health issue, not only among
97 African countries but globally. According to the UNDP (2006), ”an estimated number of 1.1 billion people in
98 developing countries have limited access to safe drinking water while about 2.6 billion people lack access to basic
99 sanitation.” It is estimated that ”in Sub-Saharan Africa, about 250 million people in rural areas lack safe and
100 accessible water as well andabout 81% out of an estimated 67% of the total rural population lack some sanitation
101 facilities” (Mtinda, 2006). Unsafe water coupled with poor sanitation and hygiene in rural Africa are drivers of
102 child mortality. For instance, ”about 43% of children in Sub-Saharan Africa are reported to drink unsafe water
103 and one in five dies before their fifth birthday”(UNICEF & WHO, 2005) Correspondingly, ”lack of potable water

104 and basic sanitation is said to account for about 1.6 million preventable child deaths each year with millions
105 of other children suffering from waterborne diseases such as diarrhoea, typhoid and worms" (UNICEF, 2005).
106 More so, "inadequate water supply, insufficient sanitation and unsafe hygiene are observed to have caused and
107 reinforced poverty and deepened the disparity between rich and poor" (Nicol, 2002). As noted earlier, "the
108 rural and urban poor communities are mostly affected by inadequate water supply and sanitation services both
109 socially and economically" (Mtinda, 2006). This, consequently results in the vicious cycle of poverty. Hence, the
110 community management system needs to be embraced by "stakeholders involved in water supplies and sanitation
111 provision in rural areas" (IRC, 2003).

112 According to WHO (2011), some African countries particularly countries south of the Sahara and in southern
113 Asia have less than half their population using improved facilities, thus, "the largest number of people are
114 without access to basic sanitation." In terms of regional disparities, Africa is reported to be home to about "40%
115 of all people without access to an improved drinking water source. The rural populations in African countries
116 are severely vulnerable, as the number of people living without access to an improved drinking water source is
117 estimated to be more than five times greater than that of urban populations" (WHO, 2011). There were further
118 disparities in terms of socioeconomic levels of the people in accessing an improved drinking source of water,
119 as well as receiving minimum water service levels and the normal rate of receiving pipeborne water to their
120 residences. These inequalities are projected to be exacerbated by the impact of climate change and hence present
121 several health risks associated with poor water safety to poor people. According to Golo and Eshun (2018),
122 "The socioeconomic impact of climate change, resulting from anthropogenic activities is a major concern for the
123 international community and governments as it has emerged as a key human rights violation, global security issue
124 and socio-economic development threat for many countries of the world" (p.1). Ghanaians are facing the brunt
125 of climate change in accessing potable water, especially within rural communities in the northern enclave of the
126 country.

127 Recognizing the significance of water and elementary sanitation facilities and their connection to the SDGs
128 has become very necessary. It is thus, relevant to have a clear conception of how rural communities in Africa are
129 participating in the management of potable water systems.

130 There has been an increased involvement in water development which changed the traditional roles adopted by
131 government and communities, where governments changed from "provider" to "facilitator" and the community
132 from "receiver" to "doer" (Amerasinghe, 2009). The concept of "community participation" in water supply
133 has since proven to be an effective way of achieving sustainability in potable water management. Potable
134 water supply and basic sanitation services that have neglected active community participation in the planning
135 and management of these services have lacked sustainability due to poor operation and maintenance by the
136 beneficiary communities. There is evidence that sustainable potable water interventions in rural communities
137 "are characterized by significant community investment of labour, other in-kind services, and user fees in the
138 design, construction, maintenance and operation of the facilities" (United Nations, 2015). When it comes to
139 water management services, the community should be the principal stakeholder while receiving support from
140 "local government and other development partners such as NGOs and private sectors for proper functions of
141 the community-managed water projects" (Mtinda, 2006). Therefore, community management of potable water
142 services should be backed by measures that turn to strengthen local institutions in the implementation processes
143 of community water services, as emphasized by "the United Nations Conference on Environment and Development
144 (UNCED) in Rio de Janeiro 1992 and the World Summit on Sustainable Development (WSSD) in Dublin 2002,
145 South" (Doe & Khan, 2004).

146 Community participation has great potential to ensure the sustainability of potable water supplies. It
147 is, however, important to note that communal involvement may not inevitably result in effective community
148 management of potable water systems at all times in communities. There may be some aspects of the project
149 services that may not have to be managed by the community and so should be explained during community
150 consultations. Nonetheless, community participation is a prerequisite for achieving a sustainable potable water
151 system that is efficient, effective, equitable and replicable in rural communities. Therefore, effective community
152 participation is achieved through effective community consultation and participatory planning processes (Harvey
153 & Reed, 2007). It is against this that, Thorpe ??2002) suggests that participation by community members in
154 potable water projects should start early, from problem identification to ensuring and enhancing community
155 ownership of projects. He further noted that, if community participation is effectively done from the beginning
156 to the end, then there will be no need for handing over projects to beneficiaries when the project is completed.
157 He argues that, if there is a need for an agency to hand over a project to the community, then the process
158 is already flawed since the community should already own the project. Batchelor, McKemey and Scott (2000)
159 also contend that "community participation at the early and simplest level of involvement greatly enhances the
160 future sense of ownership by communities." The authors added that ongoing motivation is required for continuing
161 participation because participating in the planning process does not necessarily mean that the community will
162 sustain participation in ongoing service delivery.

163 There are "key stages of the planning process which involve community participation, among which include;
164 the community established as a body with decision-making power, demand assessment, option identification and
165 informed decision-making" (Harvey & Reed, 2007). Community participation at these stages is very important
166 and must be emphasized. It is during these stages that the communities better understand through effective

167 participation which will eventually enhance ownership and sustainability of the project. Any © 2023 Global
168 Journals community potable water project will fail if members of the community do not participate in the
169 activities and decision-making processes involved at every stage. This illustrates how community participation-
170 associated challenges in the management of potable water should be addressed by all stakeholders in the field. Any
171 breakdown in the supply chain process should be tackled with all the desired effort.

172 Inasmuch as there are benefits to community participation in natural resources, management of potable water
173 in rural communities has its challenges. It is accepted that the community participation approach provides an
174 avenue for stakeholders to play a "key role in project planning, implementation and monitoring of projects,
175 which serves as a prerequisite for project ownership, successful implementation and sustainability" (Mwakila,
176 2008). The participation of beneficiaries in potable water supply project initiation, implementation, operation
177 and maintenance is very significant because it provides "them greater opportunity to manage and decide on issues
178 that are affecting or may affect their water supply systems" (Tadesse, Bosona, & Gebresenbet, 2013).

179 Low community participation in some rural development projects including rural water supply in many
180 developing countries has resulted in projects' inability to bring profits to rural communities over an extended
181 period due to insufficient community involvement and understanding to ensure sustainability (Toyobo & Muili,
182 2013). According to Harvey and Reed (2007), "the low rural water supply sustainability levels throughout Sub-
183 Saharan Africa are indicative of severe limitations of community participation and management approach." For
184 instance, in Western Kenya, "very few water projects out of the many projects implemented in the last 20 years
185 lasted for more than 5 years from the date of initiation due to inadequate community participation" (Sei, 2016).

186 Inadequate access to financial and other resources reduces the capacity of local communities to participate in
187 potable water management projects, as well as affects communities' "ability to pay for water services" (Kakumba
188 & Nsingi, 2008). The resource constraints are real and do not only affect the level of participation and
189 management of community water projects but also, the sharing of best practices is not always easy among
190 communities and stakeholders (European Commission, 2014).

191 Another challenge affecting community participation in the management of potable water has to do with the
192 lack of adequate knowledge and skills of community members stemming from a high level of illiteracy. "This
193 limits the scope of community participation in rural water development thus, perpetuating the continuous lack
194 of safe and clean water among many communities" (Kakumba & Nsingi, 2008).

195 Again, lack of knowledge and ignorance on the part of the people in most rural communities, makes them
196 ineffectively participate and manage their sources of potable water. A lot of people do not know that building
197 of proper water facility is a cost-sharing between themselves, the district assembly and the service providers.
198 Whereby the beneficiary community pays 5%, the assembly pays 5% and the service provider pays 90% of the
199 total cost of the facility (CWSA, 2005). Cultural practices and customs whereby women and children are denied
200 active participation in decisionmaking are a cause of ineffective participation in the management of potable water.
201 Women and children are the major users of water in a community so they should take a leading role in planning
202 and managing the new or rehabilitated water system.

203 Traditionally, water is seen as a gift of nature. The view that water is a natural resource and therefore should
204 be provided freely is still very alive today (Bacho, 2001). This lingering perception of water as a gift of nature
205 emanated from the traditional concept of water that, water bodies are the natural bodies of the spirits, both evil
206 and good. These spirits can be offended through disturbances or breaking of a taboo which would be tantamount
207 to abusing their natural place of abode (Bacho, 2001). These cultural values and belief systems turn out to limit
208 the participation of traditional people in discussions on the need to discard outmoded practices that serve as
209 obstacles to potable water provision.

210 Apart from the universal household uses of water, economic activities and personal hygiene, water is also used
211 for spiritual cleansing and pouring of libation. Water is also a cleansing medium of the unclean and abrogating
212 consequences that the spirit oaths to forestall the devastating consequences that the spirit will unleash on the
213 unfortunate victim. In everyday social interaction, water is important in fostering social relations. Among many
214 ethnic groups in Ghana, a visitor is granted an audience only after he or she has been served water to quench his
215 or her thirst. The worst one can do to his fellow is to refuse him or her water. This would be viewed as extreme
216 social misconduct since water is God's gift (Bacho, 2001). Depending on the established ideas above, the people
217 especially, traditional societies do not see the need to pay money as a counterpart fund for the building of water
218 facilities, so they continue to utilize the streams, rivers and rainwater as the will of the gods providing it.

219 With this notwithstanding accessing water for domestic purposes has been a major issue in the northern parts
220 of Ghana. According to the Wa West District Assembly Annual Progress Report (2020), "CWSA defines access
221 to safe water to include the following elements: Ensuring that each person in a community served has access to
222 no less than 20 litres of water per day; Ensure that walking distance to a water

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226 © 2023 Global Journals facility does not exceed 500 meters from the furthest house in the community; That
227 each sprout of borehole or pipe system must serve no more than 300 persons and 150 for a hand dug well; The
228 water system is owned and managed by the community; and Water facility must provide all year-round potable
229 water to community members" (p. 30). However, Table 1 which spells out the annual report on "access to safe
230 drinking water sources and the proportion of the population with access to improved sanitation services as an
231 indicator (Categorised by Development Dimension of Agenda for Jobs)" is not encouraging. 1 indicates that the
232 Wa West District is grappling with issues in helping with provisions of accessible and safe drinking water sources
233 and improved sanitation for all. This calls for the proper involvement of the various catchment communities
234 within the district in realizing Sustainable Development Goal (SDG) six which is to "Ensure access to water and
235 sanitation for all."

236 The lack or failure of many facility providers to involve the beneficiary community is one of the causes of
237 ineffective participation in potable water management in communities. The deliberate non-involvement or low
238 involvement of community members in water projects by project implementers is a concern to worry about.
239 Involvement of the communities "is an important component of water projects as it maximizes the potential
240 benefits of improving water supply. It also helps users appreciate the need for their proper operation and
241 maintenance and creates a willingness to contribute to their costs. It is not sufficient to construct an improved
242 water supply. New facilities must be used continuously by everybody and in a safe way" (CWSA, 2005).

243 The rapid breakdown of systems, low sense of ownership and growing proportion of unserved population
244 generated concerns about how existing systems could be maintained and new demand met, and service
245 sustainability became a focal concern. The realization is that "where there is no local participation in planning
246 and local decision making and no local commitment to operation and maintenance including financing, the system
247 has a short life span (Obeng et al., 2020). The need for access to safe water, sanitation and hygiene has become
248 a clarion call for all humans because they are seen as one of the basic criteria for hale and hearty human health
249 and wellbeing. Hinging on these calls for the methodological processes to realise the focus of the research.

250 **5 III. Methodology and Research Setting**

251 The The study adopted a qualitative approach to research with a case study designfor the study. The core
252 objective of the study was to examine the cultural challenges affecting effective community participation in
253 potable water management in the Gbaalwob, Chogsia, and Gadi, communities in the Wa West District in the
254 Upper West Region of Ghana. The population for the study included twenty residents each from the three
255 communities, namely; Gbaalwob, Chogsia, and Gadi. Also, three key officials from the District Assembly and
256 three opinion leaders each from the Gbaalwob, Chogsia, and Gadi communities were sampled for the study. In
257 all the seventy-two (72) participants for the study were made up of sixty (60) residents, nine (9) opinion leaders,
258 and three (3) officials from the district assembly.The sample size of the study was seventy-two participants. A
259 purposive sampling technique was employed in selecting the participants for the study. "Purposive sampling
260 therefore allows for the picking of interview objects that fit the focus of the study based on the judgement of the
261 investigator" (Sarantakos, 2005). As a result, the participants were selected based on the fact that they had the
262 desired knowledge to be able to contribute to the findings to achieve the objective of the study. A semi-structured
263 interview guide and a focus group discussion checklist were employed in the data collection. Data was analysed
264 thematically. Emerged themes from the interviews and the focus group discussion were analysed based on the
265 themes from the data collection. Ethically, participants were assured of anonymity and free will to either leave
266 or continue with the research process after the purpose of the study was made known to them.

267 **6 IV. Findings and Discussion**

268 This section presents the demographic characteristics of participants, and challenges affecting effective community
269 participation in the management of potable water in the Wa West District of Ghana.

270 **7 a) Demographic Characteristics**

271 The demographic characteristics comprised the education, occupation, and the number of years the participant
272 had lived in the community. The level of education of participants is relevant in assessing the level of participation
273 of community members in the management of rural water services and systems. The educational level of
274 participants is presented and discussed as follows. With the total number of sixty residents selected, the study
275 revealed that the majority, thus, 23 participants did not go to school or had formal education, while 18 participants
276 had primary school education. The results further show that 16 participants had Junior High School (JHS)
277 education and three participants had Senior High School (SHS) education. No respondent had a tertiary
278 education. The above findings show that there is a low level of education among participants and for that
279 matter confirms that educational levels are low in rural communities in the Upper West Region. Also, with the

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280 occupation of participants, 24 of the participants were farmers, 15 were dressmakers, 12 were traders, and 9 were
281 students.

282 The majority of the participants being farmers reflects the rural nature of the study communities. Also, 15 of
283 the participants were found to be dressmakers, 12 were traders and nine were students. The results reveal that
284 the setting was typical rural and farming communities but with other livelihood portfolios as supporting systems
285 for household food security and income. So, being farming communities will mean that there will be a high
286 demand for water for farming and related activities both during the rainy and dry seasons. This is particularly
287 so because according to the Ghana National Climate Change Policy document, agriculture in Ghana is rainfall
288 dependent and rainfall over the years has demonstrated increasingly decreasing trends in amount/quantity and
289 is highly inconstant in terms of onset and end of the season (Ministry of Environment, Science, Technology
290 and Innovation [MESTI], 2013). This indicates that climate change is exerting unwavering socio-economic
291 consequences on the livelihood of people (Eshun, Golo, & Dankwa, 2019).

292 The last demographic characteristic considered is the number of years participants have lived in their respective
293 communities. It was revealed from the study that, all participants have lived for more than 15 years in the
294 communities. The results show that six participants representing 10% of the total participants have lived in the
295 communities for 16-20 years, a majority of 36

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299 © 2023 Global Journals participants representing 60% also lived for 21-25 years, while 20% and 10% of the
300 participants were found to have lived in the communities for 26-30, and 31 and more years respectively. This
301 shows that participants' opinions on the issues of the study reflect the real subject matter in the communities since
302 they have extensive experience regarding the problems associated with the participation of water management
303 activities in the selected communities. The presentation of the demographic characteristics provides a deeper
304 analysis and interpretation of the other findings in the next section. The next section explains why the educational
305 level, occupation, and years of residency are relevant to understanding community participation in potable water
306 management. The demographics will also explain how beliefs and values as concepts in culture come in handy
307 to influence participation levels and attitudes.

308 10 b) Challenges Affecting Effective Community Participation 309 in Potable Water Management

310 Even though the findings show an appreciable level of community participation in the supply of potable water and
311 in the decision-making process involved in water management in the communities, there still exist some challenges.
312 A major challenge in the study affecting community participation in potable water management was the issue
313 of financial constraints confronting both providers of potable water and beneficiary communities. Providers are
314 constrained in terms of funding for providing adequate potable water to rural communities and are also unable
315 to monitor and evaluate the use of existing potable water facilities. The Wa West District Assembly and other
316 providers are unable to provide facilities to adequately meet the water demand of communities in the district and
317 hence there is pressure on existing facilities and on the assembly to provide more for the populace. Corroborating
318 this, the District Planning Officer noted during an in-depth interview that: "The assembly is overwhelmed with
319 increasing requests for more boreholes to be drilled in almost all the communities in the district. There is a wider
320 gap between the demand for boreholes and the number that we (the assembly) have provided to communities in
321 the district. There is a need for the assembly to drill more boreholes in communities for the people to use, but we
322 are challenged with inadequate funds to do that. Our major source of funds is the District Assembly Common
323 Fund (DACF) which is also inadequate to cater for other needs and still provides an appreciable number of
324 boreholes. So we have been engaging community members and other relevant stakeholders in the water sector
325 on how we can meet the demands of the communities. but it is not easy to get the people to fully understand
326 our (assembly) situation." (Planning Officer - Wa West District Assembly).

327 Another opinion leader had this to say: "Some of my people believe that all sources of water are gifts from
328 the gods and they should not be asked to partake in its provision. To them, God gave us all these. They were
329 there before our forefathers. They believe that the rainwater that fills the rivers, the streams and all other water
330 sources are not manmade. This makes their participation and management of water very difficult." (Community
331 Opinion Leader - Wa West District). Apart from the above excerpts from the study, the findings also show that
332 the ability of some community members to actively participate in the management of potable water systems in
333 the communities is limited due to the inability to make contributions regularly. Members who are not able to pay
334 their contributions were said to usually dodge community water management meetings. The inability of members
335 to pay maintenance and repair dues makes it difficult to ensure the sustainability of potable water facilities.

336 Another challenge the study found was the poor attitude of some members of the communities in attending
337 communal meetings relating to potable water supply and management. It is only when all members attend

338 meetings that popular views can be expressed and heard on important matters such as potable water supply
339 and management in rural communities. So, when people do not attend meetings, they are not well informed
340 about the processes of the acquisition of water facilities and the need for proper management for sustainability.
341 This is particularly worse when it comes to farming where every community member turns to concentrate on
342 working on their farms since they are predominantly farmers. Also, women are equally busy on their farms
343 coupled with the picking of sheanuts. The patriarchal nature of the communities also affects decision-making as
344 collaborated by Dankwa (2018). Meetings during this period are not effective and participation therefore turns
345 out to be low, because only a few people attend and deliberations cannot be effective and easily accepted by the
346 whole community. Most people lack the commitment to attend waterrelated meetings even though water is used
347 by everybody in the communities. This relates to the opinion of Schonten and Moriarty (2004) that, "a lack of
348 community cohesion, commitment and management skills, unrepresentative from water communities, technical
349 issues and financial problems are some of the drawbacks." The deduction has been underlying cultural factors.

350 An officer of the Community Water and Sanitation Agency (CWSA) revealed that poor attendance to meetings
351 before and after the facilities are provided affects effective participation and hence affects management for the
352 sustainability of the facilities provided. He noted that: "During the engagement of community members before
353 provision of the facilities, we have always realized that many people do not turn up for the meetings. Meanwhile,
354 management and sustainability issues regarding the water facilities are discussed during such meetings. It is in
355 such meetings the communities select some people to be trained on repair and maintenance of the facilities. We
356 trained these selected people as a team known as Water and Sanitation Management Teams (WSMT) and they
357 are responsible for ensuring that the facilities are managed well. They report to us their issues that are beyond
358 their control" (Officer, CWSA-Wa West District Assembly).

359 The results also show that there was a low level of education among the community members. As seen in the
360 demographics, the majority of the people had not been to school, followed by those with primary and junior high
361 school education. This affects effective participation during meetings and discussions since they may not be able
362 to appreciate certain important issues relating to water supply and management. For instance, some community
363 members do not understand the need for them to be engaged many times before drilling a borehole. They equally
364 do not understand why authorities would attach the construction of household latrines as an automatic activity
365 for community members. That is, they are unable to understand the link between water and sanitation due to
366 their low level of education. It stemmed from the fact that most of them are not ready to relegate their beliefs
367 and values when it comes to water as a gift from the gods. This makes them believe that their participation
368 should not be compulsory. It takes much time and resources to organise several community sensitisation fora to
369 explain and discuss to their understanding to ensure effective management sustainability when the facilities are
370 provided.

371 The study also reveals that the communities are confronted with sanitation issues such as open defecation
372 which is making it difficult to meet the sanitary aspects of potable water provision by providing authorities.
373 The principles in providing potable water are merged with sanitary and hygiene issues dubbed Water, Sanitation
374 and Hygiene (WASH) and hence the provision of one automatically goes with other issues. According to ??HO
375 (2011), the provision of a safe water supply "is an important environmental determinant of health that seeks to
376 prevent and control waterborne diseases. Therefore, potable water supply and sanitation and hygiene education
377 are effective health interventions towards minimising morbidity and mortality related to diarrhoeal and other
378 related diseases among children in rural communities in particular." According to the outcomes from the focus
379 group discussion, even though discussions held with the communities on the matter of open defecation are yielding
380 results, the results are not very encouraging. They noted that it has not been easy mobilising communities for
381 activities to curb open defecation in the communities. The Environmental Health Officer noted that:

382 "The people are quick to request boreholes but they are very reluctant to attend meetings to discuss sanitary
383 issues especially issues relating to curbing open defecation in the communities. Meeting them to discuss matters
384 of open defecation is not easy because they think that it is not important for now, despite telling them that
385 curbing open defecation is a prerequisite for the provision of boreholes. Meetings on open defecation are in most
386 cases attended by few young men and old people. Meanwhile, the young people have the strength to construct
387 the household latrines that we have advocating and promoting".

388 The above narration relates to the view of Harvey and Reed (2007) who noted that low sustainability of potable
389 water services is not only related to social and management issues but also to environmental and technical issues.

390 Also, it was deduced from the focus group discussion that there was a clear cultural issue as most of the
391 indigenous people think water is supposed to be a gift of nature. This makes it difficult for them to simply accept
392 the need to participate and pay for its management. Most of them believed that there was no need to pay for
393 the provision of water-related facilities. This echoed the outcome of research by Bacho (2001), that traditionally,
394 water is seen as a gift of nature. The view that water is a natural resource and therefore should be provided
395 freely is still very alive. As a result of this, traditional people normally resort to the continued use of available
396 streams, rivers and rainwater as ordained sources from the gods. These cultural values and belief systems turn
397 out to limit the participation of traditional people in discussions on the need to discard outmoded practices that
398 serve as obstacles to potable water provision.

399 The foregoing cultural and socioeconomic factors serve as barriers to effective community participation relating

14 GROUNDED ON THE CONCLUSION OF THE STUDY, THE FOLLOWING RECOMMENDATIONS ARE MADE:

400 to potable water supply and management towards sustainable development among selected communities in the
401 Wa West District.

402 11 V. Conclusion and Recommendations

403 Inadequate finance is a foremost impediment to effective community participation in water management in the Wa
404 West District. Low incomes among households constrain the people's ability to make regular contributions every
405 month towards the repairs and maintenance of borehole facilities when they break down. Inadequate finance
406 at the district assembly also affects the assembly's ability to provide adequate boreholes for the communities.
407 Mobilization of internally generated funds of the assembly is poor as the district

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410 13 41

411 © 2023 Global Journals has only four (4) major market centres. Therefore, the Wa West District Assembly and
412 other providers are unable to adequately meet the water demand of the communities.

413 Also, some members of the communities do not attend communal meetings regularly and hence are left out
414 of decisions that are taken in such meetings. Such people turn out to be not well informed about decisions and
415 regulations on water facilities and proper management for the sustainability of the facilities. The farming season
416 presents an obstacle to regular attendance at gatherings on community water supply and management. Because
417 the communities are predominantly farmers, people turn to go to work on their farms rather than attending
418 meetings to participate in discussions on water-related matters. Hence, meetings during this period are not
419 effective and participation therefore turns out to be low. Many people lack commitment to attend water-related
420 meetings even though water is used by everybody in the communities.

421 Endemic cultural issues and low educational backgrounds among the members of the communities also affect
422 community participation. It makes it difficult for them to appreciate certain important issues relating to water
423 supply and management. As traditional societies, they do not see the need to pay money as a counterpart fund
424 for the building of water facilities. So, they continue the utilization of available sources of water as the will of
425 the gods providing it. For instance, community members do not understand the need for them to be engaged
426 in sanitary issues when the main issue has to do with drilling a borehole. Thus, they do not understand why
427 authorities would attach the construction of household latrines to drilling a borehole in a community. There is no
428 understanding of the link between water and sanitation due to the low level of education. It will take much time
429 and resources to organize sensitization programmes to explain their understanding to ensure effective management
430 and sustainability.

431 14 Grounded on the conclusion of the study, the following 432 recommendations are made:

433 It is appropriate that boreholes are mechanized and operational processes commercialized by the communities at a
434 small fee within the district. Amongst the other water services, the provision of boreholes in each of the communities
435 should be prioritised. The mechanization will help safeguard the larger population to secure water from each of the
436 boreholes dotted in each of the communities thereby helping everyone to be served. This will solve or reduce the
437 pressure and demand for more boreholes to provide potable water. It is also suggested that there should be the
438 provision of credit facilities to households who are deprived to be able to diversify their livelihood to enhance them
439 to effectively contribute monthly towards the borehole's maintenance in their various communities. In addition,
440 this can be done through the formation of Village Savings and Loans Associations (VSLA) in the communities
441 to improve the income of women in particular.

442 Also, the District Assembly through the Information Service Department and the National Commission on
443 Civic Education (NCCE) should intensify community sensitization programmes to explain to community members
444 the need for them to actively participate in matters relating to water and its related matters.

445 It is further recommended that conscious effort should be put in place by the Ghana Education Service (GES),
446 and the National Commission on Civic Education (NCCE) to sensitize the population on the need for access to
447 and use of potable water. The district assembly should collaborate with the needed agencies to improve on the
448 unhindered access to education on the inculcation of a positive attitude towards access, community participation
449 and the sustainable management of drinking water. This in due course will increase the awareness levels among
450 community members. Deliberate educational campaigns on the link between water and sanitation will help
451 address endemic cultural issues and the low level of education mentioned in the findings. ¹

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Figure 1: Global 40 ©

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Table

Figure 2: Table 1 :

14 GROUNDED ON THE CONCLUSION OF THE STUDY, THE FOLLOWING RECOMMENDATIONS ARE MADE:

[GSS], 2015). The population of the district, according to the 2010 Population and Housing Census, is 81,348 representing 11.6 percent of the region's total population. According to GSS (2015), "agriculture accounts for 86.0% of the district's economy. The predominant agricultural activity is farming. Most farmers undertake a combination of crops and animal production. The main crops grown are maize, millet, cowpea and groundnut. The district has a comparative advantage in groundnut and cowpea production." "The "Indicator district is blessed with several water bo

ii. Urban are 0.2 percent of each household" (GSS, 2015).

3 1

"The proportion of the population with access to improved sanitation services" i. 39.54 54.7
Dis-trict ii. Ur-ban iii. N.A
Ru-ral

Source: Wa West District

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Figure 3: Cultural Challenges Affecting Effective Community Participation in Potable Water Management in Selected Rural Communities in the Upper West Region of Ghana

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