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Water quality testing of ceel-ileed



INTRODUCTION

Here, I am reporting you that there is an outbreak of water born disease occurring in **Ceel-ileed, Timirshe village**. The water associated problem is affected by 500 households which is the total area's population; there are 150 severely ill cases and 10 deaths among those 500 households in the last 10 days.

We have sent them a mobile team of PASAWEYN Agency in water quality department to assess the water quality and the impact of water associated problem to the community.

On examination and test results was:

1. **The physical quality test** of the water was: turbid on appearance and bad dour on smell in inspection techniques.
2. **The Chemical quality test** of the water was: the water PH was 8.5, 8.2 and 7.9 the salinity of water was normal according to the Somalia water standard, but we haven't tested the any of the heavy metal of the water due to limited our water laboratory capabilities.

3. And finally the **Microbiological quality test** of the water was: we have seen 93, 88 and 84 fecal coli form Bacteria/100ml of water samples in three different shallow wells respectively in that area, which is dangerous in quality according the international guideline and protocols after seeing a huge bacterial contamination.

PSAWEN Mandate

PSAWEN is the Puntland national agency mandated by the government for developing water, energy potentials and regulating water resources, sanitation and energy in Puntland. The key mandates of PSA WEN are;

Provision of clean water and appropriate sanitation service at an affordable rate to the population of Puntland that is acceptable to all stakeholders. Ensure that clean and safe water is supplied to the population through regular monitoring of chemical, physical and biological water quality parameters. Survey and design of water supply developments in Puntland. This will include environmental impact assessment where required.

Ensuring and examining the water quality. It's the role of PSAWEN to develop and promote appropriate means to ensure that water is of adequate quality for human and livestock consumption. Approval of water abstraction/ supply, management and waste water discharge arrangements Establish and increase the efficiency of sector's investment and progress to financial self-sufficiency. Operate, maintain and manage the Puntland regions water system and all component associated with the sustainable operation.

The legal power to act as supplier of last resort. This means that the government can take over the management of a supply on behalf of the public in cases where supply operators clearly fail to provide an adequate service. The government shall then ensure that adequate supply is restored and returned to an effective operator as quickly as possible.

Cover all operational and managerial running of costs for water supply system in all towns.

OVERALL OBJECTIVE

The main objective of this activity was to ensure the Water sources of ceel-ileed are safe and Applicable for human consumption referring to WHO drinking water standard. This assignment is undertaken to ensure the sources are clean, safe and potable.

1	1	shallow well	ceel-need	8.4	30	150	2500	1675	93	Present	No	free	Not fit for drinking
2	1	shallow well	ceel-need	7.9	30	100	2000	1340	82	Present	No	free	Not fit for drinking
3	1	shallow well	ceel-need	8.2	29	200	2900	1943	88	Present	yes	free	Not fit for drinking

Recommendations:

1. We are recommending delivering the community urgently one month a water trucking facility, in order to keep the life sustainability and prevent the further deaths due to consumption of the prohibited community's water wells in concerned agencies (Gov, LNG's and INGO's).
2. Prompt chlorination of wells aiming as a water treatment activity and the distribution of Aqua-tabs in MOH and INGO's.
3. Immediately sending emergency health mobile teams to deliver a health and medical professionals for case management, supply of essential drugs and
4. preparing referral system for severely ill patients
5. we are recommending to make water intervention in that village.