Investigation Report

WASH team works closely and in high coordination with RRT (Rapid Response Team), formed from staff working in EWARN (DLOs, FLOs…).
The team, after receiving any alert, focuses on the investigation of WASH services in the hotspot areas.
The investigation includes:

1. Taking samples from drinking water resources (main stations, wells, water trucks, water taps…. etc.).
2. Investigate sewage networks and septic tanks' locations and other sanitation services.
3. Identify Hygienic practices…. etc,.
4. Assessing agriculture markets (Identify irrigation water and resource of agricultural products if applicable).

Total number of investigations: 6, distributed as follows:

- **Harim (District)**

Number of Investigations: 2

Dana (Sub-district)/ Dana (Community): Full investigation was carried out, covering the community. Four stations are connected with the network, supplying the community, of which, 3 water stations aren't working. The network covers 80% of the community, where the operation hours reach 7 per day. The residents depend on procuring water from private vender to bridge the gap of supply.
The investigation covered taking samples of drinking water, measuring FRC and conducting biologically test of following points:
Water station (Dana Algharbia): water is safe to drink.
Medical Point (Independent doctors center/Tank): water is safe to drink, but it requires chlorination (FRC value is zero).
Medical Point (SIMA center/Tank): water is safe to drink, but it requires chlorination (FRC value is zero).
Aldale (private well): water is safe to drink, but it requires chlorination (FRC value is zero).
Random water truck: water is safe to drink, but it requires chlorination (FRC value is zero).
Random house (Tank): water is safe to drink, but it requires chlorination (FRC value is zero).
Filtered water: water is safe to drink, but it requires chlorination (FRC value is zero).
Alhijra – Reif Halab camps: water is safe to drink, FRC values ranged between 0.2 and 0.6 ppm.
The sanitation network covers 80% of the community and it's in a good situation, but it requires expansion.

Dana (Sub-district)/ Sarmada (Community): Full investigation was carried out. Four stations are connected with the network, supplying the community, of which, 3 water stations aren't working. The fourth station is pumping the water to southern neighborhoods of the community. The remaining parts of the community are securing their water demands through water trucking from private wells (Some of them were tested previously, and the results showed that water was safe to drink but required chlorination).
The investigation covered taking samples of drinking water from different points:
Water station (The Southern station): water is safe to drink, but it requires chlorination (FRC value is zero).
Medical Point (Eman Hospitable/Tank): water isn't safe to drink physically, as the NTU is high.
Medical point of Sarmada (Tank): water is safe to drink. The FRC value was 0.34 ppm.

Random tanks (3 points): water is safe to drink, but it requires chlorination (FRC value is zero).
Al-Hadiqa camp: water is safe to drink. The FRC value ranged from 0.3 to 0.6 ppm.
The sanitation network covers 70% of the community and it's in a moderate situation and requires rehabilitation and expansion in some points. There is a sewer line, diameter 70 cm, in the eastern part of community, which needs urgent rehabilitation and expansion as it couldn't discharge the overflow particularly in raining days. This causes a flood in the nearby streets and neighborhoods.


- **Afrin (District)**

Number of Investigations: 3

Afrin (Sub-district)/ Afrin (Community): 7 water stations are supplying the community, of which, 6 stations aren't operating. The working station, Al Duha station, is supplying the water from Medanki lake. The investigation covered taking samples of drinking water and either measuring FRC or conducting biologically test of following points:
3 different points from the network: water is safe to drink and not contaminated.
3 schools: water is safe to drink and not contaminated.
Medical point (Afrin Hospital): water is safe to drink and not contaminated.
The result showed the water samples have FRC values at all levels.
There are some private wells which are being used in emergency as there was no pumping to water stations and public networks and they also are used by organizations to feed the nearby camps with water. The water is chlorinated and safe to drink.
The sewer network is in good situation, requiring some rehabilitation in some parts. The sewage flows into Afrin's River where the water is used for irrigation on a large scale.

Sharan (Sub-district)/ Qatmet Efrin (Community):
The community is connected to water station, Qatmet Efrin, through a water network. However, due to the damage to the public water network, it covers only about 50%. The reaming residents secure their water from private wells. The water of the station was tested earlier many times and the water was safe to drink.

Sharan (Sub-district)/ Kafr Janna (Community):
The main station isn't operating and requires a maintenance. Thus, the households rely on private wells to secure their needs of water.

5 different water samples—private well, water station, water trucks— were taken in both Qatmet and Kafr communities. The result showed that water is safe to drink and not contaminated.

- **Jarablus (District)**

Jarablus (Sub-district)/ Jarablus (Community): The community is supplied with water through water stations connected with water networks. But, due to the expansion of the buildings and increasing population, some houses aren't connected to network. So, they rely on water trucking.
The local authorities and acting organizations are supervising and supporting the operation. Different samples were taken, as follows:
2 water stations, 3 schools, 3 medical points (centers), 2 random houses.
The FRC values existed and measured, and the water was safe to drink.
The sanitation network covers 80% of the community and requires expansion and rehabilitation.

Recommendation:

- The tank of Eman hospital needs to be cleaned properly, to reduce the NTU.

-End of Report-