

## Study of Water Quality in Suaahara II Project Areas

**Status: Ongoing**

**Project Partner:** USAID/HKI  
**Project Area:** 81 VDCs from 37 Suaahara II working districts  
**Project Duration:** May 2016 to April 2021

### Aim:

- To study the water quality from source, taps and households;
- To study the quality of water used for different household purposes for drinking and washing hand and vegetables

### Project Description:

The Suaahara II project is a five-year, comprehensive, community-focused project dedicated to improve the health and nutritional status of pregnant and lactating women and children under the age of two and working in 40 districts in all development regions of Nepal. One of the major activities under Suaahara II project was water quality monitoring in 81 VDCs of 37 Suaahara II working districts.

From each VDC, a major water supply scheme was selected and the qualities of water supplied were assessed from source, reservoir, taps and households for microbiological and physico-chemical parameters. In each household, water quality of 'ready to drink' water, handwashing water and water used for washing vegetables and hands were assessed. Furthermore, a sanitary inspection of the sources was also conducted. Field parameters like pH, temperature, turbidity, total hardness, ammonia and nitrate were measured at field using the meters and ENPHO water test kit. For heavy metals analysis, samples were preserved and sent to ENPHO laboratory. Total coliform and *E. coli* were tested at field using DelAgua Filtration kit and ENPHO body belt incubator. A total of 2,428 samples were collected and analyzed.



### Project Outputs:

- Factsheet on water quality of the analyzed schemes
- Comprehensive report on water quality

### Major Achievements:

- Availability of data on water quality and sanitation status of source, reservoir, tap and households from 37 districts in Nepal

### Beneficiaries:

729 HHs from 81 VDCs of 37 districts