

Stage I Pretest (Before intervention)

Drinking water samples were collected and analyzed for contamination of the indicator microbes and waterborne bacteria. The activities in the pretest included sample collection and analysis.

1. Sample collection

Sixty-one samples of drinking water were collected from ten targeted schools as shown in Table 1. The samples were taken from all water dispensers that provide drinking water to school students, i.e. water cooler tanks and multiple-faucet basins as shown in Figure 3.

Figure 3. Water dispensers providing drinking water to school students.



Water cooler tank



Multiple-faucet basin

One sample was taken from a single valve of a faucet of each dispenser. After collection, the samples were immediately transported to the laboratory at the Department of Medical Sciences, Ministry of Public Health. Moreover, during the collection, the appearance and sanitary condition of the water supplies, i.e. water cooler tanks and multiple-faucet basins, were inspected and recorded by using the checklist as shown in Appendix A.

2. Sample analysis

At the laboratory for microbiological analysis of water and beverage,