

Water Test Report

By

St. Catharine's School For Girls, Kwun Tong

30th Oct., 2007.

Parameter	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6	Site 7	Site 8
Date	19/10	23/10	24/10	24/10	25/10	25/10	25/10	28/10
Location	Upper course of Lam Tsuen River	Aquarium(Kwum Tong)	Aquarium (Kwum Tong)	Drinking water(Lam Tin)	Aquarium (Kwum Tong)	Drinking water(Lai Chi Kok)	Flushing water (L-ai Chi Kok)	Drinking water (Kowloon Bay)
Air Temp	24	28	28	28	28	29	29	28
Turbidity (JTV)	0	40	40	0	40	0	40	0
Water Temp	22	26	26	26	27	26	26	27
DO(PPM)	6	4	4	4	4	4	6	2
PH	7.5	7	7	7.5	8	8	8	8

Objectives:

- 1. To practice the use of the water test kit provided by the Water Supplies Department.**
- 2. To compare the quality of water**
 - a. between a natural river and domestic drinking water from the water pipe**
 - b. between drinking water and water in the aquariums at home**
 - c. between drinking water and flushing water.**

Analysis:

Turbidity

The table shows a very low turbidity for drinking water and the river water but a higher turbidity for flushing water and aquarium water. It means that the water from our pipes is as clear as those found in the upper course of Lam Tsuen River (the section in Kadoorie Farm). However,

there are some pollutants in the aquarium which might be outputs from fish, or sand, silt or clay in the flushing water so the data for turbidity is higher.

Dissolved Oxygen

The concentration of DO in water is quite high in all sites. It means that the solubility of oxygen into water is high because the condition of water allows the dissolution of oxygen into it. Moreover, it indicated that less micro-organisms are present in the water so the consumption of oxygen is low. Therefore, the concentration of oxygen in water is quite high in all sites except site 8. Dissolved Oxygen in the aquarium is as high as that in the drinking water because oxygen is artificially supplied to the aquarium to provide a suitable condition for the fish to survive.

Water temperature

On the whole, the water temperature in all sites is lower than the air temperature showing that there is no thermal pollution.

PH

The data shows that the Ph-value is very close to neutral, which indicates the level of water pollution is low.

Summary:

Low turbidity, high concentration of DO in water and neutral result in PH show that the water in Hong Kong has good quality and monitoring work by the Water Supplies Department is very effective. It is safe for the daily consumption of Hong Kong citizens.

Remarks:

Thanks for all the officers in the Water Supplies Department who serve conscientiously for the Hong Kong citizens. They have done their best to provide clean and safe water for us. It is really a hard job. We should appreciate their great effort to maintain a high quality of water for the citizens.

Thanks for the Water Supplies Department to provide the water test kits for us to test the water quality and consequently gain invaluable experience and knowledge on water pollution.

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