

香港區世界水監察活動資料表

東華三院李嘉誠中學

水道：粉嶺丹山河

測試日期： 10月18日

位置	地點一	地點二	地點三	地點四	地點五	地點六	地點七	地點八	地點九	地點十
氣溫 °C	30	28	30	30	28	30	28	32	32	32
水溫 °C	28	28	26	28	28	28	28	28	28	28
溶解氧(ppm)	8	8	8	8	8	8	4	8	8	8
酸鹼度(pH)	8	7	8	7	6	7	6	7	8	7
混濁度(JTU)	40	40	40	40	0	0	40	40	40	0

附近環境描述	
地點一	在馬路旁，近民居及樹木，河道經人工改造，河裏有少量垃圾，淺水。
地點二	水道窄，非常接近馬路，經人工改造，較少植物在旁，有垃圾，無明顯的魚，多青苔，水流較快，淺水。
地點三	附近多民居，河床未經人工改造，多植物在兩旁，少垃圾，有小魚，附近有一垃圾站，河面有白泡，淺水。
地點四	看似混濁，河面有白泡，無人工改造，水流較慢，少垃圾，多細魚，淺水。
地點五	有泡沫，多植物在旁，近有民居，附近有垃圾站，水流慢，無人工改造，有大魚。
地點六	河道窄，多植物，沒有魚類。
地點七	多小魚及水草，少垃圾，附近有田及民居。
地點八	兩旁有較多長草，多小魚。
地點九	天然的淺水小溪，有長草，旁邊有小水坑。
地點十	在集水道內，水很清，人工建成。



2006 World Water Monitoring Day in Hong Kong

School Report

by **T.W.G.Hs Li Ka Shing College**



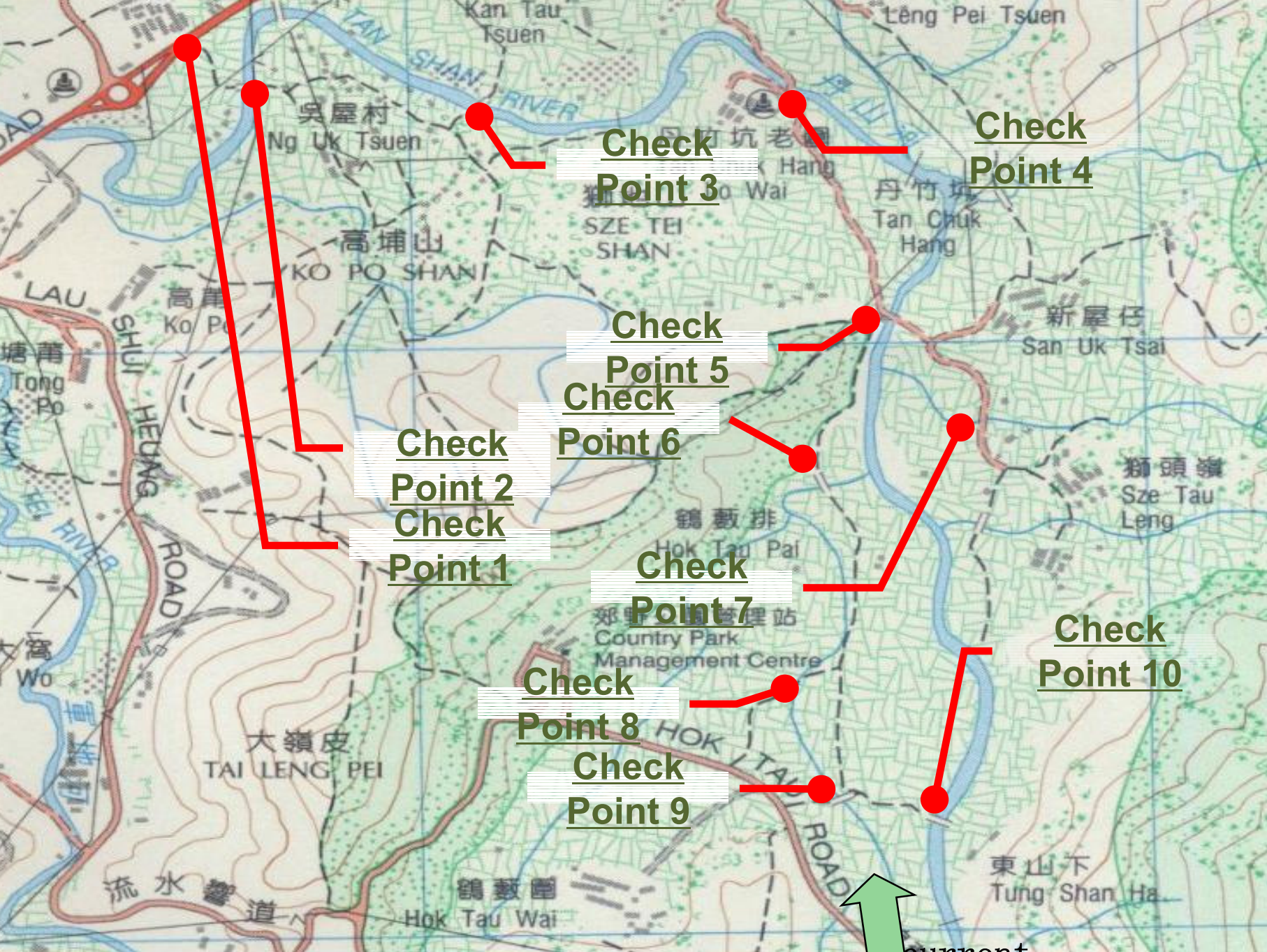
Target



Tan Shan River

Fanling, N.T., HKSAR





Check Point 3

Check Point 4

Check Point 5

Check Point 6

Check Point 2
Check Point 1

Check Point 7

Check Point 10

Check Point 8

Check Point 9

current

Check Point 1 (Tan Shan River) 22°30'47.21"N

114°10'00.05"E

Kwan Tei, Sha Tau Kok Road before traffic circle near Ng Uk Tsue

- **Date of examination:** 18/10/2006
- **Temperature:** 30 °C
- **Water temperature:** 28 °C
- **Dissolved oxygen:** 8 ppm
- **pH value:** 8
- **Turbidity:** 40 JTU
- **Description of the environment:**
 - near main road and houses
 - with trees near the watercourse
 - with small amount of rubbish
 - with shallow water
 - with river drainage works



Check Point 2 (Tan Shan River) 22°30'49.64"N

114°10'09.92"E

Between Sha Tau Kok Road (near Hung Leng) and Ng Uk Tsue

- **Date of examination:** 18/10/2006
- **Temperature:** 28 °C
- **Water temperature:** 28 °C
- **Dissolved oxygen:** 8 ppm
- **pH value:** 7
- **Turbidity:** 40 JTU
- **Description of the environment:**
 - quite close to main road
 - with river drainage works
 - shoal water with some plants nearby
 - with large amount of algae
 - with swift flowing water



Check Point 3 (Tan Shan River) 22°30'51.80"N

114°10'26.10"E

Between Ng Uk Tsuen and Kan Tau Tsue

- **Date of examination:** 18/10/2006
- **Temperature:** 30 °C
- **Water temperature:** 26 °C
- **Dissolved oxygen:** 8 ppm
- **pH value:** 8
- **Turbidity:** 40 JTU
- **Description of the environment:**
 - with foam floating
 - near many houses
 - with a lot of plants nearby
 - very little amount of rubbish
 - with shallow water
 - natural stream with small fishes

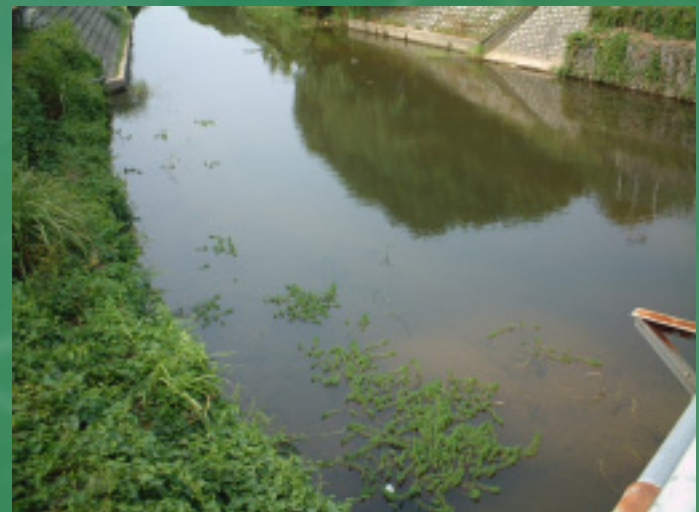


Check Point 4 (Tan Shan River) 22°30'50.87"N

114°10'33.59"E

Tan Chuk Hang Lo W

- Date of examination: 18/10/2006
- Temperature: 30 °C
- Water temperature: 28 °C
- Dissolved oxygen: 8 ppm
- pH value: 7
- Turbidity: 40 JTU
- Description of the environment:
 - turbid shoal water with foam
 - natural stream
 - slow current
 - with large amount of small fishes



Check Point 5 (Tan Shan River) 22°30'38.29"N

114°10'41.14"E

Between the road from Tan Chuk Hang to San Uk Ts

- **Date of examination:** 18/10/2006
- **Temperature:** 28°C
- **Water temperature:** 28 °C
- **Dissolved oxygen:** 8 ppm
- **pH value:** 6
- **Turbidity:** 0 JTU
- **Description of the environment:**
 - slow current with foam
 - a lot of plants nearby
 - with big fishes
 - without river drainage works
 - near refuse collection point
 - with houses nearby



Check Point 6 (Tan Shan River) 22°30'26.42"N

114°10'41.42"E

Hok Tau P

- **Date of examination:** 18/10/2006
- **Temperature:** 30 °C
- **Water temperature:** 28 °C
- **Dissolved oxygen:** 8 ppm
- **pH value:** 7
- **Turbidity:** 0 JTU
- **Description of the environment:**
 - narrow watercourse
 - with a lot of plants nearby
 - no fish



Check Point 7 (branch canal of Tan Shan River)

22°30'26.19"N 114°10'38.43"E

Between the road from San Uk Tsai to Sze Tau Len

- Date of examination: 18/10/2006
- Temperature: 28 °C
- Water temperature: 28 °C
- Dissolved oxygen: 4 ppm
- pH value: 6
- Turbidity: 40 JTU
- Description of the environment:
 - with a lot of small fishes
 - with plants nearby
 - with small amount of rubbish
 - near fields and houses



Check Point 8 (branch canal of Tan Shan River)

22°30'17.11"N 114°10'36.85"E

Near the country park management cent

- **Date of examination:** 18/10/2006
- **Temperature:** 32 °C
- **Water temperature:** 28 °C
- **Dissolved oxygen:** 8 ppm
- **pH value:** 7
- **Turbidity:** 40 JTU
- **Description of the environment:**
 - narrow stream
 - with plants nearby
 - with many small fishes



Check Point 9 (branch canal of Tan Shan River)

22°30'10.10"N 114°10'38.44"E

Near Hok Tau Road

- **Date of examination:** 18/10/2006
- **Temperature:** 32°C
- **Water temperature:** 28°C
- **Dissolved oxygen:** 8 ppm
- **pH value:** 8
- **Turbidity:** 40 JTU
- **Description of the environment:**
 - wide and shallow river
 - natural stream
 - long grass nearby
 - with water storage pit nearby



Check Point 10 (Tan Shan River) 22°30'08.49"N

114°10'42.97"E

Near Tung Shan P

- Date of examination: 18/10/2006
- Temperature: 32 °C
- Water temperature: 28 °C
- Dissolved oxygen: 8 ppm
- pH value: 7
- Turbidity: 0 JTU
- Description of the environment:
 - within catchment area
 - clean water with plants nearby



Data I

	CP. 1	CP. 2	CP. 3	CP. 4	CP. 5	CP. 6	CP. 7	CP. 8	CP. 9	CP. 10
Date	18/10	18/10	18/10	18/10	18/10	18/10	18/10	18/10	18/10	18/10
Temp/ ° C	30	28	30	30	28	30	28	32	32	32
W. temp/ ° C	28	28	26	28	28	28	28	28	28	28
DO /ppm	8	8	8	8	8	8	4	8	8	8
pH value	8	7	8	7	6	7	6	7	8	7
Turbidity/JTU	40	40	40	40	0	0	40	40	40	0

Conclusion

- **pH of water is lower when there is a lot of people living in the nearby areas (CP. 5 & 7)**
- **Number of people living around is related to the turbidity (CP. 5 & 6)**
- **Amount of dissolved oxygen is lower when there are many people living in the nearby areas (CP. 7)**
- **Water quality improves after passing through a distance of a watercourse (CP. 4 & 5)**
- **Plants in the river can help to keep DO value at 8 and pH at 7-8**

The End



Teacher

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