

漢江水系 水質汚染度 調査研究(第6報)

環境調査科

裴京錫·呂寅學·李完鍾·金顯國

高漢成·嚴石源·吳秀暻

A Study on Water Pollution of Han River Water System (VI)

Division of Environment Research

Kyung Seok Bae, In Hak Yeo, Wan Jong Lee, Hyun Kook Kim

Han Sung Ko, Suk Won Uhm and Soo Kyung Oh

= Abstract =

The present study was performed from May 21 to June 18, 1990 in order to investigate on the pollution of 87 sites in the Han River water system.

1. The range of pH values was 7.0~8.3 with the exception of 8.7~8.9 at Hongchŏn river down stream (A-12) and Kyunganchŏn upper stream.

2. The range of SS values was 1.0~53.0 mg/l in the South and North Han River, 1.3~15.6 mg/l in the main Han River and 1.0~228.0 mg/l in the branch streams of the main Han River.

3. The range of DO values was 5.7~14.2 mg/l in the South and North Han River, 6.5~10.0 mg/l in the main Han River 0.0~13.0 mg/l in the branch streams of the main Han River. Especially, DO values appeared as perfect anaerobic condition at middle and lower stream of Anyangchŏn (C-42, C-43).

4. The range of BOD values was 0.64~2.70 mg/l with the exception of 3.68~16.5 mg/l at Bokhachŏn down stream (B-15) and Gongjichŏn down stream (A-16) in the South and North Han River.

5. The number of Coliform group ranged over $1.6 \times 10^3 \sim 5.0 \times 10^6$ MPN/100 ml at all sites. Especially, they appeared as high level pollution at Jungryangchŏn ($3.0 \times 10^5 \sim 3.3 \times 10^6$ MPN/100 ml), at Tanchŏn ($6.0 \times 10^3 \sim 2.1 \times 10^5$ MPN/100 ml) and at Anyangchŏn ($5.0 \times 10^5 \sim 3.0 \times 10^6$ MPN/100 ml).

6. Total-mercury was not detected at all sites. Concentration of other heavy metals was nd~0.002 mg/l range in CN, nd~0.017 mg/l range in AS, 0.003~0.018 mg/l in Cu, 0.145~0.750 mg/l range in Fe, 0.003~0.960 mg/l range in Mn, 0.003~0.234 mg/l range in Zn and nd~0.063 mg/l range in Ni.

