COD pH

()

We studied the water quality of The Satomi-gawa River, which flows near Konko Gakuen, because we thought that The Satomi-gawa River might be polluted. First, we tested the water conditions. Our results showed that the values of COD and pH have gotten worse at two points compared to a previous study done by Asakuchi city. Second, we measured levels of phosphate and chloride ions, because we expected that there might be a possibility of water pollution due to an increase of population and factories located along the river. The results show that both phosphate and chloride ions from household effluent has no significant effect to The Satomi-gawa River's water quality. We will re-examine the water at the survey spots, and we want to find a way to improve methods for further studies.

water quality, phosphate ions, chloride ions, Mohr method, The Satomi-gawa River

1



3. 3-1 COD pH 3 4

3-2



2

(-1800),

()

() ()

)

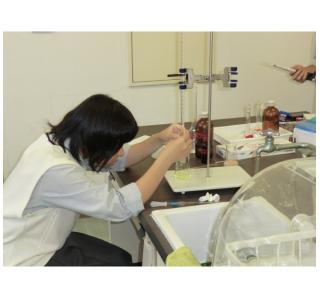
(

(100ml) 20ml 1.25ml 0.06ml 15

Oml () 1ml 2ml 5ml 10ml 15ml 20ml

<u>3–3</u>

4-2



モール法<滴)				
観測点 採取日	山下橋	山下橋 合流前	松の木橋	神影橋
2012年4月25日	2.38	2.17	2.02	1.83
2012年5月9日	1.95	1.50	1.65	1.45
2012年5月16日	2.11	1.87	2.32	1.60
モール法<塩イ				
観測点 採取日	山下橋 (里見川)	山下橋 (佐方川)	松の木橋 (合流後)	神影橋 (排水溝下)
2012年4月25日	42.7	38.9	36.2	32.8
2012年5月9日	35.0	26.9	29.6	26.0
2012年5月16日	37.8	33.5	41.6	28.7



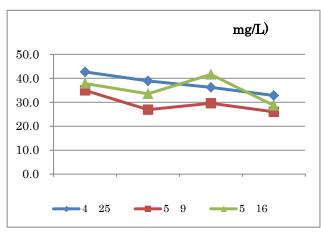
(f)
$$=\frac{20}{19.8}$$

(2) 20ml 5

5 0.01mol/L

$$\frac{\left(\frac{\text{mg}}{\text{L}}\right)}{= 0.01 \left(\frac{\text{mol}}{\text{L}}\right) \times \frac{35.5}{20ml} \times (\text{f})$$

$$\times \times 10^{3}$$



 $200 {\rm mg/L}$

4. <u>4-1</u>

吸光度<リン				
観測点	山下橋	山下橋	松の木橋	神影橋
採取日	(里見川)	(佐方川)	(合流後)	(排水溝下)
2012年4月25日	0.0029	0.0004	0.0017	0.0001
2012年5月9日	0.0035	0.0001	0.0054	0.0073
2012年5月16日	0.0011	0.0004	0.0003	0.0030

6.

5.

7.

()

8.

