

**Table S1.** Concentration values and evaluation results of water pollution

Sample Information	Physical and Chemical Indicators			Sensory Indicators					Pathogen/Microbiota Indicators		Grade
ID	CaCO <sub>3</sub>	HCO <sub>3</sub> <sup>3-</sup>	COD	Visible objects	chroma	PH	Odor	Turbidity	TEC	TBC	
Limit value	450	1000	3	nothing	15	6.5-8.5	nothing	1	0	100	
rainwater	-	-	-	Green sediment	-	6.48	/	-	/	/	2
1	-	-	-	Yellow brown precipitate	-	-	/	-	/	/	2
2	-	-	-	Yellow brown precipitate	-	-	/	-	/	/	2
3	-	-	6.71	Black precipitate	-	-	Rotten eggs	1.1NTU	/	/	4
4	-	-	3.47	Yellow brown precipitate	-	-	/	-	/	/	2
5	467.6	-	-	Yellow brown precipitate	-	-	/	-	23	470	4
6	-	-	-	Yellow brown precipitate	-	-	/	-	/	/	2
7	-	1201.4	-	Yellow brown precipitate	-	-	/	-	49	820	4
8	814.2	-	-	Yellow brown precipitate	16	8.68	/	2.6NTU	7	270	4
9	-	-	-	Yellow brown precipitate	-	-	/	-	33	-	4
10	-	-	3.96	Black precipitate	-	-	Stinky odor	5.4NTU	/	/	4
11	-	-	28.89	/	64	-	Stinky odor	5.4NTU	/	/	4
12	-	1346.5	-	Yellow brown precipitate	-	-	/	-	540	1400	4
13	651.2	-	-	Yellow brown precipitate	-	6.25	/	-	1600	610	4
14	-	-	-	Yellow brown precipitate	-	-	/	-	/	-	2
15	-	-	-	Yellow brown precipitate	-	-	/	-	/	-	2
16	-	-	-	Yellow brown precipitate	-	-	/	-	33	-	4
17	463.55	-	-	Black precipitate	-	-	/	-	920	220	4
18	484.57	-	-	Yellow brown precipitate	22	-	/	-	1600	3100	4
19	-	-	-	Yellow brown precipitate	-	-	/	-	/	/	2

20	-	-	-	Yellow brown precipitate	-	-	/	-	/	/	2
21	-	-	-	Black precipitate	-	-	/	-	/	/	2
22	-	-	-	Yellow brown precipitate	-	-	/	-	/	/	2
23	-	-	-	Dark green sheet-like substance	-	-	/	-	/	/	2
24	-	-	-	Yellow brown precipitate	-	-	/	-	/	/	2
25	530.2	-	3.38	Yellow brown precipitate	-	-	/	-	1600	350	4
26	-	-	-	Yellow brown precipitate	-	-	/	-	/	/	2
27	-	-	-	Yellow brown precipitate	-	-	/	-	/	/	2
28	-	-	3.22	/	-	-	/	-	/	/	2
29	-	-	3.55	Yellow brown precipitate	-	-	/	-	/	/	2
30	-	-	-	Yellow brown precipitate	-	-	/	-	/	/	2
31	-	-	4.12	Yellow brown precipitate	-	-	/	-	/	/	2
32	-	-	-	Yellow brown precipitate	-	-	/	-	/	/	2
33	-	-	-	Yellow brown precipitate	-	-	/	-	/	/	2
34	-	-	-	Yellow brown precipitate	-	-	/	-	/	/	2
35	-	1117.5	-	Yellow brown precipitate	-	-	/	-	11	-	4

Note: “/” : Not detected; “-” : Detected not exceeding the standard; “ ” : Excess value