

## Supporting Information

**Table S1 (1). Regular Indices of Water Quality, Their Limitations and Detection Values**

Index	Limitation	detection value
1. Microorganism indices <sup>a</sup>		
Total coliform group/(MPN/100mL or CFU/100 MI)	Not detected	Not detected
Heat resisiting conliform group/(MPN/100mL or CFU/100mL)	Not detected	Not detected
Escherichia coil/(MPN/100mL or CFU/100mL)	Not detected	Not detected
Aerobic bacteria count/(CFU/mL)	100	less than Limitation

**Table S1 (2). Regular Indices of Water Quality, Their Limitations and Detection Values**

Index	Limitation	detection value
2.Toxicological indices		
As/(mg/L)	0.01	less than Limitation
Cd/(mg/L)	0.005	less than Limitation
Cr(sexavalence)/(mg/L)	0.05	less than Limitation
Pb/(mg/L)	0.01	less than Limitation
Ag/(mg/L)	0.001	less than Limitation
Se/(mg/L)	0.01	less than Limitation
Cyanidium/(mg/L)	0.05	less than Limitation
Fluoride/(mg/L)	1	less than Limitation
	10	
Nitrate(counted "N")/(mg/L)	If the groundwater source is confined,then 20	less than Limitation
Chloroform/(mg/L)	0.06	less than Limitation
Carbon tetrachloride/(mg/L)	0.002	less than Limitation
Bromate(when using ozone)/(mg/L)	0.01	less than Limitation
Formaldehyde(when using ozone)/(mg/L)	0.9	less than Limitation
Chlorite(when using chlorine dioxide for sterilization)/(mg/L)	0.7	less than Limitation
Chlorite(when using composite chlorine dioxide for sterilization)/(mg/L)	0.7	less than Limitation

**Table S1 (3). Regular Indices of Water Quality, Their Limitations and Detection Values**

Index	Limitation	detection value
3.Sensitive property and general chemical index		
Chroma(platinum/cobalt chroma unit)	15	less than Limitation
Turbidness(scattered turbidness unit)/NTU	1 If confined by water source and water purification conditions,then 3	less than Limitation
Odor and sapor	Free from any odor and sapor	No
Visible matters(unaided eye)	No	No
pH	Not less than 6.5 and not larger than 8.5	in the Limitation
Al/(mg/L)	0.2	less than Limitation
Fe/(mg/L)	0.3	less than Limitation
Mn/(mg/L)	0.1	less than Limitation
Cu/(mg/L)	1	less than Limitation
Zn/(mg/L)	1	less than Limitation
Chloride/(mg/L)	250	less than Limitation
Sulfate/(mg/L)	250	less than Limitation
Total soluble solid/(mg/L)	1000	less than Limitation
Total hardness(CaCO <sub>3</sub> )/(mg/L)	450	less than Limitation
Oxygen consumption(COD <sub>Mn</sub> method,counted as O <sub>2</sub> )/(mg/L)	3 Restrict in the water source, if untreated water oxygen consumption>6mg/L, then 5	less than Limitation
Volatile phenol/(mg/L)	0.002	less than Limitation
Anion synthetic detergent/(mg/L)	0.3	less than Limitation

**Table S1 (4). Regular Indices of Water Quality, Their Limitations and Detection Values**

Index	Limitation	detection value
4. Radioactive indices <sup>b</sup>	Guidance value	
Total $\alpha$ radioactivity/(Bq/L)	0.5	less than Limitation
Total $\beta$ radioactivity/(Bq/L)	1	less than Limitation
<p>a. MPN means most probable number; CFU means colony forming unit. If total coliform group is detected in the water sample, escherichia coil or heat resisting coliform group shall be examined further; if total coliform group is not detected, then it's not necessary to examine escherichia coil or heat resisting coliform group.</p> <p>b. If the radioactive index exceed the guidance value, then it's necessary to analyze and evaluate the nuclide and to judge whether it's drinkable or not.</p>		

**Table S2. Concentration of Five Sex Hormones in Rat Urine**

Times (day)	Groups	Concentration (mean±SD, n=10) (ng/mL)				
		Dehydroepiandrosterone	Androstenedione	Testosterone	Dihydrotestosterone	Estrone
0d	NC	20.17±6.07	13.91±4.11	29.03±10.05	11.61±3.64	11.79±3.50
	MIXPs	18.27±6.07	12.91±5.24	29.73±9.50	12.80±5.24	11.73±2.95
30d	NC	17.91±5.75	12.82±4.21	28.90±9.52	11.05±3.82	9.89±3.71
	MIXPs	24.67±10.32	15.26±5.80	34.91±13.58	13.42±5.10	12.01±4.28
60d	NC	20.30±6.52	14.59±5.61	27.10±10.00	9.84±3.82	7.31±5.85
	MIXPs	30.10±7.80 <sup>a</sup>	21.90±10.71 <sup>a</sup>	47.58±11.62	18.64±8.81 <sup>a</sup>	11.47±4.79
90d	NC	20.95±5.45	13.77±3.98	27.17±7.85	12.79±4.08	8.77±4.20
	MIXPs	38.10±14.97 <sup>a</sup>	26.80±10.43 <sup>a</sup>	51.64±14.41 <sup>a</sup>	22.86±8.56 <sup>a</sup>	11.50±4.07

NC: normal control group; MIXPs: phthalates mixtures treated group; <sup>a</sup> :  $P<0.05$ , compared with NC.

**Table S3. Concentration of Creatinine in Rat Urine**

Times (day)	Groups	Concentration (mean $\pm$ SD, n=10) ( $\mu$ mol/L)
		Creatinine
0d	NC <sup>a</sup>	0.79 $\pm$ 0.26
	MIXPs <sup>b</sup>	0.76 $\pm$ 0.30
30d	NC <sup>a</sup>	0.72 $\pm$ 0.25
	MIXPs <sup>b</sup>	0.90 $\pm$ 0.37
60d	NC <sup>a</sup>	0.76 $\pm$ 0.29
	MIXPs <sup>b</sup>	0.91 $\pm$ 0.44
90d	NC <sup>a</sup>	0.80 $\pm$ 0.25
	MIXPs <sup>b</sup>	0.95 $\pm$ 0.38

a: NC - normal control group

b: MIXPs - phthalates mixtures treated group

