

**University of Asia Pacific**  
Environmental Engineering Laboratory  
Department of Civil Engineering  
Monthly water quality parameter report

Month: April, 2017

*Prepared by: Dr. Tanveer Ferdous Saeed*  
*Associate Professor and Lab-in-charge*  
*Environmental Engg.Lab, Department of Civil Engg.*

SL No	Water Quality Parameters	Unit	Concentration		Bangladesh Standard for Drinking Water (ECR, 1997)	Remarks
			Filter Water	Tap Water		
1	pH		7.09	7.09	6.5-8.5	
2	Color	Pt-Co	13	<b>16</b>	15	
3	Turbidity	JTU	10.77	1.49	10	
4	Alkalinity (as CaCO <sub>3</sub> )	mg/L	188	188	---	
5	Iron	mg/L	0.11	0.56	0.3-1.0	
6	Electrical Conductivity (EC)	μS/cm	353	334	---	
7	Dissolve Oxygen (DO)	mg/L	4.18	4.17	6	
8	Total Hardness (as CaCO <sub>3</sub> )	mg/L	108	127	200-500	
9	Chloride (Cl <sup>-</sup> )	mg/L	76.1	65.5	150-600	
10	Chemical Oxygen Demand (COD)	mg/L	0	0	4	
11	Total Dissolved Solids	mg/L	170	160.5	1000	
12	Suspended Solids	mg/L	0	4	10	
13	Ammonia Nitrogen (NH <sub>3</sub> -N)	mg/L	0.16	0.26	0.5	
14	Nitrite Nitrogen (NO <sub>2</sub> -N)	mg/L	0	0	<1.0	
15	Nitrate Nitrogen (NO <sub>3</sub> -N)	mg/L	0.3	0.3	10	
16	Sulfate (SO <sub>4</sub> <sup>2-</sup> )	mg/L	2	2	400	
17	Phosphate (PO <sub>4</sub> )	mg/L	0	0	6	
18	Free Chlorine	mg/L	0	0	0.2	
19	Temperature	°C	25.1	25.1	20-30	
20	Fecal Coliform (E. Coli)	CFU/100 mL	0	0	0	

Note: 1. Color of tap water sample exceed drinking water guideline numbers.