

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

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*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          | 7.01        | 6.5-8.5  | OK         |
| 2     | Color                                    | Pt-Co      | 4             | <b>36</b>   | 15   | Tap not OK |
| 3     | Turbidity                                | JTU        | 0             | 5.19        | 10   | OK         |
| 4     | Alkalinity (as CaCO <sub>3</sub> )       | mg/L       | Not measured  |             | ---  |            |
| 5     | Iron                                     | mg/L       | 0.07          | 0.2         | 0.3-1.0  | OK         |
| 6     | Electrical Conductivity (EC)             | μS/cm      | 388           | 378         | ---  | ---        |
| 7     | Dissolve Oxygen (DO)                     | mg/L       | <b>5.27</b>   | <b>4.92</b> | 6  | Not OK     |
| 8     | Total Hardness (as CaCO <sub>3</sub> )   | mg/L       | 139           | 156         | 200-500  | OK         |
| 9     | Chloride (Cl <sup>-</sup> )              | mg/L       | Not measured  |             | 150-600  |            |
| 10    | Chemical Oxygen Demand (COD)             | mg/L       | 0.1           | 1.0         | 4  | OK         |
| 11    | Total Dissolved Solids                   | mg/L       | 380           | 379         | 1000   | OK         |
| 12    | Suspended Solids                         | mg/L       | 0             | 4           | 10   | OK         |
| 13    | Ammonia Nitrogen (NH <sub>3</sub> -N)    | mg/L       | 0.01          | 0.02        | 0.5  | OK         |
| 14    | Nitrite Nitrogen (NO <sub>2</sub> -N)    | mg/L       | <b>2</b>      | <b>1</b>    | <1.0   | Not OK     |
| 15    | Nitrate Nitrogen (NO <sub>3</sub> -N)    | mg/L       | 0.3           | 0.3         | 10   | OK         |
| 16    | Sulfate (SO <sub>4</sub> <sup>2-</sup> ) | mg/L       | 3             | 4           | 400  | OK         |
| 17    | Phosphate (PO <sub>4</sub> )             | mg/L       | 0.1           | 0.1         | 6  | OK         |
| 18    | Free Chlorine                            | mg/L       | 0             | 0           | 0.2  | OK         |
| 19    | Temperature                              | °C         | 24.4          | 24.2        | 20-30  | OK         |
| 20    | Fecal Coliform (E. Coli)                 | CFU/100 mL | <b>500</b>    | <b>3000</b> | 0  | Not OK     |

