# Anbu Anna Colony Wetland – Water quality as of 22nd March 2018

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sl.No** | **Parameter** | **Observed Value** | **Standard permissible/ desirable limits** | **Remarks** |
|  |  |  | **Drinking water** | **River** **Water** |  |
| 1 | **pH (units)** | 7 | 6.5 – 8.5 |  |  |
| 2 | **Temperature (⁰C)** | 16⁰C |  |  |  |
| 3 | **Faecal Coliform** | Absent | Absent |  |  |
| 4 | **Fluoride** | 0.6 | 1 - 1.5 | - |  |
| 5 | **Dissolved Oxygen** | 0.27 × 20 = 5.4 mg/l | - | - |  |
| 6 | **Residual Chlorine (Min)** | 0 | 0.2 |  |  |
| 7 | **Phosphorous** | 0.5 | - | - |  |
| 8 | **Nitrate** | <10 | 45 | - |  |
| 9 | **Iron** | >1.0 | 0.3 – 1.0 | - | **Geological contamination – common in wetlands** |
| 10 | **Hardness** | 108 mg/l | 300 – 600 | - |  |
| 11 | **Chlorides** | 63.81 mg/l | 250 – 1000 | - |  |
| 12 | **Ammonia** | 0 | - | - |  |
| 13 | **Turbidity** | 0 | 5 – 10 | - |  |
| 14 | **Benthos*** **SCI**
* **DI**
 |  |  | 0.3 – 1.08 – 24 |  |

The Water quality is good in the Wetland and all parameters fall within the permissible limits except for the presence of high Iron in water which is a common problem across all wetlands in the Nilgiris.