

Surface Water Quality Data in Karaikal - July 2024

| Sl.No. | Parameters                | Arasalar River |
|--------|---------------------------|----------------|
|        | Station Code              | 1685           |
| 1      | Latitude                  | 10.9095 N      |
| 2      | Longitude                 | 79.817833 E    |
| 3      | Dt.of Sampling            | 01.07.2024     |
| 4      | Time                      | 6.30 A.M       |
| 5      | Temperature °C            | 31.0           |
| 6      | DO mg/l                   | 7.7            |
| 7      | pH                        | 7.90           |
| 8      | Conductivity µmho/cm      | 1471           |
| 9      | Turbidity NTU             | 3.5            |
| 10     | COD (mg/l)                | 24.2           |
| 11     | BOD (mg/l)                | 1.8            |
| 12     | Nitrate -N (mg/l)         | BDL (DL:0.3)   |
| 13     | Nitrite -N (mg/l)         | BDL (DL:0.02)  |
| 14     | Nitrate (mg/l)            | BDL            |
| 15     | Ammonia - N (mg/l)        | BDL (DL: 0.4)  |
| 16     | P. Alkalinity (mg/l)      | BDL (DL:5.0)   |
| 17     | Total Alkalinity (mg/l)   | 288            |
| 18     | Chloride (mg/l)           | 279.64         |
| 19     | Total Hardness (mg/l)     | 218            |
| 20     | Calcium Hardness (mg/l)   | 110            |
| 21     | Magnesium Hardness (mg/l) | 108            |
| 22     | Calcium as Ca++ (mg/l)    | 44             |
| 23     | Magnesium as Mg++ (mg/l)  | 26.2           |

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|        | Station Code                  | 1685           |
| 24     | TDS (mg/l)                    | 809            |
| 25     | TSS (mg/l)                    | 31.00          |
| 26     | FDS/TFS (mg/l)                | 686            |
| 27     | Sulphate (mg/l)               | 31.44          |
| 28     | Ortho phosphate (mg/l)        | 0.051          |
| 29     | Sodium (mg/l)                 | 162.5          |
| 30     | Potassium (mg/l)              | 6.64           |
| 31     | % Sodium                      | 60.83          |
| 32     | Fluoride                      | 0.80           |
| 33     | SAR                           | 4.8            |
| 34     | Total Coliform MPN/100ml      | 350            |
| 35     | Faecal Coliform MPN/100ml     | 130            |
| 36     | Faecal Streptococci MPN/100ml | 84             |

BDL - Below Detectable Limit   DL - Detection Limit



