

| Surface Water Quality Data in Karaikal - October 2024 |                           |                |
|-------------------------------------------------------|---------------------------|----------------|
| Sl.No.                                                | Parameters                | Arasalar River |
|                                                       | Station Code              | 1685           |
| 1                                                     | Latitude                  | 10.9095 N      |
| 2                                                     | Longitude                 | 79.817833 E    |
| 3                                                     | Dt.of Sampling            | 03.10.2024     |
| 4                                                     | Time                      | 6:30 A.M       |
| 5                                                     | Temperature °C            | 30.0           |
| 6                                                     | DO (mg/l)                 | 5.1            |
| 7                                                     | pH                        | 6.95           |
| 8                                                     | Conductivity (µmho/cm)    | 381            |
| 9                                                     | Turbidity NTU             | 2.4            |
| 10                                                    | COD (mg/l)                | 8.1            |
| 11                                                    | BOD (mg/l)                | BDL (DL:1.0)   |
| 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)   | 90.0           |
| 18                                                    | Chloride (mg/l)           | 29.9           |
| 19                                                    | Total Hardness (mg/l)     | 88.0           |
| 20                                                    | Calcium Hardness (mg/l)   | 70.0           |
| 21                                                    | Magnesium Hardness (mg/l) | 18.0           |
| 22                                                    | Calcium as Ca++ (mg/l)    | 28.0           |
| 23                                                    | Magnesium as Mg++ (mg/l)  | 4.37           |

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|        | Station Code                  | 1685           |
| 24     | TDS (mg/l)                    | 213            |
| 25     | TSS (mg/l)                    | 25.0           |
| 26     | FDS/TFS (mg/l)                | 93             |
| 27     | Sulphate (mg/l)               | 11.49          |
| 28     | Ortho phosphate (mg/l)        | 0.170          |
| 29     | Sodium (mg/l)                 | 32.3           |
| 30     | Potassium (mg/l)              | 2.62           |
| 31     | % Sodium                      | 43.40          |
| 32     | Fluoride (mg/l)               | 0.91           |
| 33     | SAR                           | 1.5            |
| 34     | Total Coliform MPN/100ml      | >1600          |
| 35     | Faecal Coliform MPN/100ml     | >1600          |
| 36     | Faecal Streptococci MPN/100ml | 84             |

BDL - Below Detectable Limit   DL - Detection Limit