



KEMENTERIAN PEKERJAAN UMUM DAN PERUMAHAN RAKYAT  
DIREKTORAT JENDERAL SUMBER DAYA AIR  
BALAI BESAR WILAYAH SUNGAI CITANDUY

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**Penentuan Status Mutu Air Kelas II dengan Metoda Indeks Pencemaran**

Sungai : Cikawung  
Lokasi Titik Pengamatan : Cukangleuleus  
Posisi Geografis - Lintang - Bujur : -7.3538 108.7066  
Tanggal : 23 Juni 2021

| No                                                          | Parameter      | Satuan | Ci    | L <sub>ij</sub> | C <sub>i</sub> /L <sub>ij</sub> | (C <sub>i</sub> /L <sub>ij</sub> ) <sub>baru</sub> |
|-------------------------------------------------------------|----------------|--------|-------|-----------------|---------------------------------|----------------------------------------------------|
| 1                                                           | Temperatur     | °C     | 28.50 | + 3             |                                 |                                                    |
| 2                                                           | DO             | mg/l   | 6.50  | 4               | 1.63                            | 0.38                                               |
| 3                                                           | pH             | mg/l   | 7.00  | 6 - 9           | 0.93                            | 0.33                                               |
| 4                                                           | DHL            | umhos  | -     |                 |                                 |                                                    |
| 5                                                           | Kekeruhan      | mg/l   | 5.40  |                 |                                 |                                                    |
| 6                                                           | BOD            | mg/l   | 1.00  | 3               | 0.33                            | 0.33                                               |
| 7                                                           | COD            | mg/l   | 9.70  | 25              | 0.39                            | 0.39                                               |
| 8                                                           | TSS            | mg/l   | 25.00 | 50              | 0.50                            | 0.50                                               |
| 9                                                           | Total Nitrogen | mg/l   | -     |                 |                                 |                                                    |
| 10                                                          | Amoniak        | mg/l   | -     |                 |                                 |                                                    |
| 11                                                          | Nitrit         | mg/l   | 0.02  | 0.06            | 0.33                            | 0.33                                               |
| 12                                                          | Nitrat         | mg/l   | 0.05  | 10              | 0.01                            | 0.01                                               |
| 13                                                          | Total Fosfat   | mg/l   | -     | 0.2             | -                               | -                                                  |
| 14                                                          | Ortho Fosfat   | mg/l   | -     |                 |                                 |                                                    |
| 15                                                          | Deterjen       | mg/l   | 80.00 | 200             | 0.40                            | 0.40                                               |
| 16                                                          | Minyak Lemak   | mg/l   | -     | 1000            | -                               | -                                                  |
| 17                                                          | Phenol         | mg/l   | -     | 1               | -                               | -                                                  |
| 18                                                          | Fecal Coliform | mg/l   | -     | 1000            | -                               | -                                                  |
| 19                                                          | Total Coliform | mg/l   | -     | 5000            | -                               | -                                                  |
| 20                                                          | Mercury        | mg/l   | -     | 0.002           | -                               | -                                                  |
| 21                                                          | Cadmium        | mg/l   | 0.004 | 0.01            | 0.40                            | 0.40                                               |
| 22                                                          | Chromium       | mg/l   | -     | 0.05            | -                               | -                                                  |
| 23                                                          | Timbal         | mg/l   | 0.03  | 0.03            | 1.00                            | 1.00                                               |
| 24                                                          | Tembaga        | mg/l   | 0.02  | 0.02            | 0.80                            | 0.80                                               |
| 25                                                          | Besi           | mg/l   | 0.08  |                 |                                 |                                                    |
| 26                                                          | Mangan         | mg/l   | 0.05  |                 |                                 |                                                    |
| 27                                                          | Seng           | mg/l   | 0.04  | 0.05            | 0.80                            | 0.80                                               |
| 28                                                          | Chlorida       | mg/l   | -     |                 |                                 |                                                    |
| 29                                                          | Boron          | mg/l   | -     | 1               | -                               | -                                                  |
| 30                                                          | Sulfida        | mg/l   | 0.02  | 0.002           | 10.00                           | 6.00                                               |
| 31                                                          | Sulfat         | mg/l   | -     |                 |                                 |                                                    |
| 32                                                          | Fluorida       | mg/l   | 0.20  | 1.5             | 0.13                            | 0.13                                               |
| 33                                                          | Selenium       | mg/l   | -     | 0.05            | -                               | -                                                  |
| 34                                                          | Sianida        | mg/l   | -     | 0.02            | -                               | -                                                  |
| 35                                                          | Arsen          | mg/l   | -     | 1               | -                               | -                                                  |
| Maksimum = (C <sub>i</sub> /L <sub>ij</sub> ) <sub>M</sub>  |                |        |       |                 |                                 | 6.00                                               |
| Rata-rata = (C <sub>i</sub> /L <sub>ij</sub> ) <sub>R</sub> |                |        |       |                 |                                 | 0.47                                               |
| Nilai Plj                                                   |                |        |       |                 |                                 | 4.26                                               |
| Status Mutu Air                                             |                |        |       |                 |                                 | Cemar Ringan                                       |