



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

Jl. Prof. Dr. Ir. H. Sutami No.1 Telp.(0265) 741051, Fax.(0265)741302 Kota Banjar – Jawa Barat 46300

Penentuan Status Mutu Air Kelas II dengan Metoda Indeks Pencemaran

Sungai : Cimuntur  
Lokasi Titik Pengamatan : Batununggul  
Posisi Geografis - Lintang - Bujur : -7,3453 108,4946  
Tanggal : 24 Oktober 2023

| No                                                          | Parameter      | Satuan | C <sub>i</sub> | 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     | 29             | + 3             |                                 |                                                    |
| 2                                                           | DO             | mg/l   | 7,00           | 4               | 1,75                            | 0,25                                               |
| 3                                                           | pH             | mg/l   | 8,20           | 6 - 9           | 1,09                            | 0,47                                               |
| 4                                                           | DHL            | umhos  | -              |                 |                                 |                                                    |
| 5                                                           | Kekeruhan      | mg/l   | 14,00          |                 |                                 |                                                    |
| 6                                                           | BOD            | mg/l   | 1,00           | 3               | 0,33                            | 0,33                                               |
| 7                                                           | COD            | mg/l   | 18,00          | 25              | 0,72                            | 0,72                                               |
| 8                                                           | TSS            | mg/l   | 3,00           | 50              | 0,060                           | 0,060                                              |
| 9                                                           | Total Nitrogen | mg/l   | -              |                 |                                 |                                                    |
| 10                                                          | Nitrit         | mg/l   | 0,90           | 0,06            | 15,00                           | 6,88                                               |
| 11                                                          | Nitrat         | mg/l   | 0,02           | 10              | 0,00                            | 0,00                                               |
| 12                                                          | Amoniak        | mg/l   | -              |                 |                                 |                                                    |
| 13                                                          | Total Fosfat   | mg/l   | 0,06           | 0,2             | 0,30                            | 0,30                                               |
| 14                                                          | Ortho Fosfat   | mg/l   | -              |                 |                                 |                                                    |
| 15                                                          | Deterjen       | mg/l   | 0,10           | 200             | 0,0005                          | 0,0005                                             |
| 16                                                          | Minyak Lemak   | mg/l   | -              | 1000            | -                               | -                                                  |
| 17                                                          | Phenol         | mg/l   | -              | 1               | -                               | -                                                  |
| 18                                                          | Fecal Coliform | mg/l   | 1.300,00       | 1000            | 1,30                            | 1,57                                               |
| 19                                                          | Total Coliform | mg/l   | 33.000,00      | 5000            | 6,60                            | 5,10                                               |
| 20                                                          | Mercury        | mg/l   | -              | 0,002           | -                               | -                                                  |
| 21                                                          | Cadmium        | mg/l   | 0,0001         | 0,01            | 0,01                            | 0,01                                               |
| 22                                                          | Chromium       | mg/l   | -              | 0,05            | -                               | -                                                  |
| 23                                                          | Timbal         | mg/l   | -              | 0,03            | -                               | -                                                  |
| 24                                                          | Tembaga        | mg/l   | 0,02           | 0,02            | 0,80                            | 0,80                                               |
| 25                                                          | Besi           | mg/l   | -              |                 |                                 |                                                    |
| 26                                                          | Mangan         | mg/l   | -              |                 |                                 |                                                    |
| 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   | -              | 0,002           | -                               | -                                                  |
| 31                                                          | Sulfat         | mg/l   | -              |                 |                                 |                                                    |
| 32                                                          | Fluorida       | mg/l   | -              | 1,5             | -                               | -                                                  |
| 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>  |                |        |                |                 |                                 | 6,88                                               |
| Rata-rata = (C <sub>i</sub> /L <sub>ij</sub> ) <sub>R</sub> |                |        |                |                 |                                 | 0,69                                               |
| Nilai PIj                                                   |                |        |                |                 |                                 | 4,89                                               |
| Status Mutu Air                                             |                |        |                |                 |                                 | Cemar Ringan                                       |