

**LAPORAN HASIL PENGUJIAN**  
**LABORATORIUM MIPA UNIVERSITAS SEBELAS MARET**  
 Bulan : Februari 2019

| No                     | Parameter        | Satuan         | Stasiun Pengamatan  |                     |                     |                     |                     |                     |                     |                     |                     |
|------------------------|------------------|----------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
|                        |                  |                | Jarum               | Jebol               | Pusur               | Wd.Mulur            | Wd.Cengklik         | Ngrukun             | Kenatan             | Timang              | Manggis             |
| 1                      | Temperatur       | <sup>0</sup> C | 26.5                | 26.5                | 26                  | 26                  | 26.5                | 26.5                | 26                  | 26                  | 26                  |
| 2                      | TDS              | mg/L           | 144                 | 142                 | 165                 | 155                 | 157                 | 138                 | 169                 | 146                 | 130                 |
| 3                      | TSS              | mg/L           | 44                  | 42.2                | 51                  | 48                  | 49                  | 39                  | 52                  | 42                  | 38                  |
| 4                      | pH               | mg/L           | 7.04                | 7.12                | 7.05                | 7.19                | 7.21                | 7.07                | 6.82                | 7.3                 | 7.18                |
| 5                      | Fe               | mg/L           | 0.323               | 0.39                | 0.255               | 0.356               | 0.672               | 0.353               | 0.239               | 0.321               | 0.537               |
| 6                      | Mn               | mg/L           | 0.128               | 0.28                | 0.211               | 0.178               | 0.337               | 0.22                | 0.127               | 0.159               | 0.305               |
| 7                      | Cd               | mg/L           | < 0.001             | < 0.001             | < 0.001             | < 0.001             | < 0.001             | < 0.001             | < 0.001             | < 0.001             | < 0.001             |
| 8                      | Zn               | mg/L           | 0.192               | 0.128               | 0.059               | 0.203               | 0.152               | 0.099               | 0.178               | 0.123               | 0.189               |
| 9                      | Pb               | mg/L           | < 0.006             | < 0.006             | < 0.006             | < 0.006             | < 0.006             | < 0.006             | < 0.006             | < 0.006             | < 0.006             |
| 10                     | Cu               | mg/L           | < 0.001             | < 0.001             | < 0.001             | < 0.001             | < 0.001             | < 0.001             | < 0.001             | < 0.001             | < 0.001             |
| 11                     | Cr <sup>6+</sup> | mg/L           | < 0.003             | < 0.003             | < 0.003             | 0.003               | < 0.003             | < 0.003             | < 0.003             | < 0.003             | < 0.003             |
| 12                     | Nitrat           | mg/L           | 0                   | 0                   | 0                   | 0                   | 0                   | 0                   | 0                   | 0                   | 0                   |
| 13                     | Nitrit           | mg/L           | 0.106               | 0.085               | 0.046               | 0.122               | 0.071               | 0.042               | 0.034               | 0.018               | 0.071               |
| 14                     | NH <sub>3</sub>  | mg/L           | < 0.002             | < 0.002             | < 0.002             | 0.002               | 0.002               | < 0.002             | < 0.002             | < 0.002             | < 0.002             |
| 15                     | PO <sub>4</sub>  | mg/L           | 0.158               | 0.502               | 0.243               | < 0,05              | 0.537               | 0.124               | 0.096               | 0.102               | 0.274               |
| 16                     | COD              | mg/L           | 40.87               | 41.91               | 35.17               | 41.39               | 36.73               | 35.17               | 42.42               | 40.87               | 39.83               |
| 17                     | BOD              | mg/L           | 12.89               | 8                   | 7.94                | 10.88               | 9.4                 | 8.37                | 8.43                | 10.72               | 11.12               |
| 18                     | Cl               | mg/L           | 18.82               | 21.58               | 14.55               | 22.58               | 16.06               | 17.06               | 15.56               | 11.29               | 12.54               |
| 19                     | Ni               | mg/L           | < 0.001             | < 0.001             | < 0.001             | < 0.001             | < 0.001             | < 0.001             | < 0.001             | < 0.001             | < 0.001             |
| 20                     | Ca               | mg/L           | 31.96               | 45.27               | 32.36               | 21.57               | 54.17               | 36.44               | 19.08               | 33.47               | 52.81               |
| <b>Status Mutu Air</b> |                  |                | <b>Cemar Sedang</b> | <b>Cemar Ringan</b> | <b>Cemar Ringan</b> | <b>Cemar Sedang</b> | <b>Cemar Ringan</b> | <b>Cemar Sedang</b> | <b>Cemar Sedang</b> | <b>Cemar Sedang</b> | <b>Cemar Sedang</b> |



**LAPORAN HASIL PENGUJIAN**  
**LABORATORIUM MIPA UNIVERSITAS SEBELAS MARET**  
 Bulan : Juni 2019

| No                     | Parameter        | Satuan         | Stasiun Pengamatan  |                     |                     |                     |                     |                     |                     |                     |                     |
|------------------------|------------------|----------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
|                        |                  |                | Jarum               | Jebol               | Pusur               | Wd.Mulur            | Wd.Cengklik         | Ngrukun             | Kenatan             | Timang              | Manggis             |
| 1                      | Temperatur       | <sup>0</sup> C | 25.5                | 25.5                | 25.5                | 26                  | 26                  | 26                  | 26                  | 25.5                | 26                  |
| 2                      | TDS              | mg/L           | 131                 | 137                 | 130                 | 126                 | 122                 | 134                 | 145                 | 149                 | 144                 |
| 3                      | TSS              | mg/L           | 39                  | 41                  | 40                  | 38                  | 42                  | 40                  | 47                  | 39                  | 45                  |
| 4                      | pH               | mg/L           | 7.77                | 8.26                | 8.22                | 8.07                | 8.1                 | 8.18                | 8.22                | 8.15                | 8.13                |
| 5                      | Fe               | mg/L           | 0.236               | 0.53                | 0.384               | 0.334               | 0.286               | 0.414               | 0.251               | 0.347               | 0.482               |
| 6                      | Mn               | mg/L           | 0.269               | 0.22                | 0.145               | 0.277               | 0.236               | 0.234               | 0.179               | 0.103               | 0.211               |
| 7                      | Cd               | mg/L           | < 0.001             | < 0.001             | < 0.001             | < 0.001             | < 0.001             | < 0.001             | < 0.001             | < 0.001             | < 0.001             |
| 8                      | Zn               | mg/L           | 0.11                | 0.081               | 0.193               | 0.164               | 0.179               | 0.154               | 0.096               | 0.153               | 0.219               |
| 9                      | Pb               | mg/L           | < 0.006             | < 0.006             | < 0.006             | < 0.006             | < 0.006             | < 0.006             | < 0.006             | < 0.006             | < 0.006             |
| 10                     | Cu               | mg/L           | < 0.001             | < 0.001             | < 0.001             | < 0.001             | < 0.001             | < 0.001             | < 0.001             | < 0.001             | < 0.001             |
| 11                     | Cr <sup>6+</sup> | mg/L           | < 0.003             | < 0.003             | < 0.003             | < 0.003             | 0.004               | < 0.003             | 0.005               | < 0.003             | 0.004               |
| 12                     | Nitrat           | mg/L           | 0                   | 0                   | 0                   | 0                   | 0                   | 0                   | 0                   | 0                   | 0                   |
| 13                     | Nitrit           | mg/L           | 0.139               | 0.086               | 0.062               | 0.016               | 0.013               | 0.015               | 0.016               | 0.017               | 0.025               |
| 14                     | NH <sub>3</sub>  | mg/L           | 0.005               | 0.016               | 0.01                | 0.007               | 0.01                | 0.01                | 0.014               | 0.011               | 0.011               |
| 15                     | PO <sub>4</sub>  | mg/L           | 0.093               | 0.083               | 0.126               | 0.109               | 0.131               | 0.164               | 0.16                | 0.194               | 0.176               |
| 16                     | COD              | mg/L           | 39.77               | 33.79               | 31.08               | 29.99               | 31.08               | 59.85               | 32.71               | 25.11               | 25.92               |
| 17                     | BOD              | mg/L           | 10.73               | 10.89               | 13.28               | 10.97               | 11.3                | 8.3                 | 11.38               | 8.49                | 10.89               |
| 18                     | Cl               | mg/L           | 8.73                | 16.71               | 16.46               | 13.72               | 11.22               | 27.18               | 11.72               | 15.21               | 10.72               |
| 19                     | Ni               | mg/L           | < 0.001             | < 0.001             | < 0.001             | < 0.001             | < 0.001             | < 0.001             | < 0.001             | < 0.001             | < 0.001             |
| 20                     | Ca               | mg/L           | 54.38               | 43.47               | 36.34               | 62.05               | 25.89               | 38.29               | 83.39               | 63.88               | 44.06               |
| 21                     | Sulfida          | mg/L           | -                   | -                   | -                   | -                   | -                   | -                   | -                   | -                   | -                   |
| 22                     | Minyak lemak     | mg/L           | -                   | -                   | -                   | -                   | -                   | -                   | -                   | -                   | -                   |
| <b>Status Mutu Air</b> |                  |                | <b>Cemar Sedang</b> | <b>Cemar Sedang</b> | <b>Cemar Sedang</b> | <b>Cemar Sedang</b> | <b>Cemar Sedang</b> | <b>Cemar Ringan</b> | <b>Cemar Sedang</b> | <b>Cemar Ringan</b> | <b>Cemar Sedang</b> |

**LAPORAN HASIL PENGUJIAN**  
**LABORATORIUM MIPA UNIVERSITAS SEBELAS MARET**  
 Bulan : Agustus 2019

| No                     | Parameter        | Satuan         | Stasiun Pengamatan  |                     |                     |                     |                     |                     |                     |                     |                     |
|------------------------|------------------|----------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
|                        |                  |                | Jarum               | Jebol               | Pusur               | Wd.Mulur            | Wd.Cengklik         | Ngrukun             | Kenatan             | Timang              | Manggis             |
| 1                      | Temperatur       | <sup>0</sup> C | 26                  | 26                  | 25.9                | 25                  | 25.5                | 25.5                | 25.5                | 25.5                | 26                  |
| 2                      | TDS              | mg/L           | 133                 | 126                 | 130                 | 129                 | 136                 | 138                 | 132                 | 121                 | 123                 |
| 3                      | TSS              | mg/L           | 37                  | 38.5                | 43                  | 40                  | 39                  | 48                  | 43                  | 40                  | 41                  |
| 4                      | pH               | mg/L           | 6.84                | 6.55                | 6.42                | 6.37                | 6.61                | 6.36                | 6.4                 | 6.48                | 6.36                |
| 5                      | Fe               | mg/L           | 0.232               | 0.599               | 0.297               | 0.349               | 0.745               | 0.217               | 0.383               | 0.284               | 0.599               |
| 6                      | Mn               | mg/L           | 0.311               | 0.116               | 0.194               | 0.268               | 0.335               | 0.208               | 0.302               | 0.125               | 0.326               |
| 7                      | Cd               | mg/L           | < 0.001             | < 0.001             | < 0.001             | < 0.001             | < 0.001             | < 0.001             | < 0.001             | < 0.001             | < 0.001             |
| 8                      | Zn               | mg/L           | 0.119               | 0.097               | 0.177               | 0.112               | 0.081               | 0.26                | 0.148               | 0.217               | 0.112               |
| 9                      | Pb               | mg/L           | < 0.006             | < 0.006             | < 0.006             | < 0.006             | < 0.006             | < 0.006             | < 0.006             | < 0.006             | < 0.006             |
| 10                     | Cu               | mg/L           | < 0.001             | < 0.001             | < 0.001             | < 0.001             | < 0.001             | < 0.001             | < 0.001             | < 0.001             | < 0.001             |
| 11                     | Cr <sup>6+</sup> | mg/L           | < 0.003             | < 0.003             | < 0.003             | < 0.003             | < 0.003             | 0.003               | 0.003               | < 0.003             | 0.003               |
| 12                     | Nitrat           | mg/L           | 0                   | 0                   | 0                   | 0                   | 0                   | 0                   | 0                   | 0                   | 0                   |
| 13                     | Nitrit           | mg/L           | 0.023               | 0.074               | 0.062               | 0.011               | 0.03                | 0.086               | 0.006               | 0.013               | 0.049               |
| 14                     | NH <sub>3</sub>  | mg/L           | < 0.002             | < 0.002             | < 0.002             | < 0.002             | < 0.002             | < 0.002             | < 0.002             | < 0.002             | < 0.002             |
| 15                     | PO <sub>4</sub>  | mg/L           | 0.146               | 0.132               | 0.139               | 0.143               | 0.136               | 0.145               | 0.153               | 0.147               | 0.165               |
| 16                     | COD              | mg/L           | 22.7                | 33.04               | 20.52               | 36.31               | 22.15               | 18.34               | 15.35               | 33.59               | 15.08               |
| 17                     | BOD              | mg/L           | 8.78                | 6.32                | 8.6                 | 8.54                | 8.48                | 8.26                | 5.67                | 8.66                | 5.67                |
| 18                     | Cl               | mg/L           | 11.72               | 20.95               | 12.97               | 16.71               | 13.72               | 38.16               | 14.21               | 25.19               | 10.73               |
| 19                     | Ni               | mg/L           | < 0.001             | < 0.001             | < 0.001             | < 0.001             | < 0.001             | < 0.001             | < 0.001             | < 0.001             | < 0.001             |
| 20                     | Ca               | mg/L           | 38.11               | 30.01               | 23.5                | 37.92               | 25.576              | 37.449              | 35.015              | 28.979              | 32.43               |
| 21                     | Sulfida          | mg/L           | -                   | -                   | -                   | -                   | -                   | -                   | -                   | -                   | -                   |
| 22                     | Minyak lemak     | mg/L           | -                   | -                   | -                   | -                   | -                   | -                   | -                   | -                   | -                   |
| <b>Status Mutu Air</b> |                  |                | <b>Cemar Ringan</b> | <b>Cemar Ringan</b> | <b>Cemar Sedang</b> | <b>Cemar Ringan</b> | <b>Cemar Ringan</b> | <b>Cemar Sedang</b> | <b>Cemar Ringan</b> | <b>Cemar Sedang</b> | <b>Cemar Ringan</b> |