

**Sewerage Services Department Sarawak**  
**Jabatan Perkhidmatan Pembetungan Sarawak**

| Sample Date    | Effluent @ Effluent Weir Plate |           |                  |     |      |      |                     |                  |      |
|----------------|--------------------------------|-----------|------------------|-----|------|------|---------------------|------------------|------|
|                | Temperature                    | pH @ 25°C | BOD <sub>5</sub> | COD | SS   | TP   | Ammoniacal Nitrogen | Nitrate Nitrogen | O&G  |
| Control / Base | 40                             | 6.0 - 9.0 | 20               | 120 | 50   | 5    | 10                  | 20               | 5    |
| 4/1/2019       | 30                             | 7.4       | 2                | 10  | 11.6 | 0.08 | 0.40                | 1.22             | 1.4  |
| 10/1/2019      | 29.8                           | 7.3       | 2                | 10  | 5    | 0.18 | 0.34                | 1.75             | 2    |
| 17/1/2019      | 29.5                           | 7.2       | 2                | 13  | 5.6  | 0.14 | 0.00                | 0.05             | 1.7  |
| 24/1/2019      | 28.9                           | 7.2       | 2                | 21  | 5    | 0.11 | 0.46                | 0.76             | 1.6  |
| 31/1/2019      | 28.4                           | 7.2       | 2                | 10  | 5    | 0.17 | 0.50                | 2.63             | 1.2  |
| 7/2/2019       | 25.6                           | 5.6       | 2                | 18  | 17.6 | 0.17 | 0.51                | 4.57             | 1.4  |
| 14/2/2019      | 29                             | 6.9       | 2                | 17  | 5    | 0.1  | 0.78                | 2.35             | 1.9  |
| 21/2/2019      | 29.1                           | 6.9       | 2                | 40  | 5    | 0.05 | 0.33                | 13.60            | 1.3  |
| 28/2/2019      | 29.7                           | 7.1       | 2                | 22  | 5    | 0.38 | 0.42                | 3.82             | 1.7  |
| 7/3/2019       | 31.3                           | 7.3       | 2                | 15  | 5    | 0.28 | 0.74                | 4.43             | 1.6  |
| 14/3/2019      | 30.8                           | 7.7       | 2                | 33  | 5    | 0.32 | 0.52                | 7.23             | 3.25 |
| 21/3/2019      | 30.2                           | 7.1       | 2                | 24  | 5    | 0.26 | 0.44                | 5.78             | 2.2  |
| 28/3/2019      | 30.3                           | 7.2       | 2.1              | 24  | 16.4 | 0.16 | 0.70                | 5.42             | 1.8  |
| 4/4/2019       | 30.1                           | 6.9       | 2                | 13  | 5    | 0.19 | 0.81                | 9.04             | 2    |
| 11/4/2019      | 28.4                           | 7.1       | 2                | 21  | 5    | 0.15 | 0.53                | 7.18             | 2.2  |
| 18/4/2019      | 33.3                           | 7.3       | 2                | 15  | 5    | 0.18 | 0.55                | 6.03             | 2.2  |
| 25/4/2019      | 31.3                           | 7.6       | 2                | 26  | 15.2 | 0.17 | 0.38                | 9.35             | 2.3  |
| 2/5/2019       | 30.50                          | 6.2       | 2                | 11  | 5    | 0.17 | 0.40                | 4.08             | 2.2  |
| 9/5/2019       | 31.10                          | 7.1       | 2                | 21  | 5    | 0.17 | 0.55                | 8.65             | 2.1  |
| 16/5/2019      | 30.10                          | 6.7       | 2                | 26  | 8.4  | 0.12 | 0.71                | 1.85             | 2.3  |
| 23/5/2019      | 29.90                          | 7.90      | 2                | 12  | 5.8  | 0.17 | 1.02                | 7.53             | 2.2  |
| 30/5/2019      | 29.70                          | 7.20      | 2                | 21  | 5    | 0.17 | 0.73                | 8.12             | 2.3  |
| 7/6/2019       | 28.30                          | 5.90      | 2                | 26  | 13.8 | 0.16 | 0.67                | 7.37             | 2.8  |
| 13/6/2019      | 29.40                          | 7.50      | 2                | 19  | 9    | 0.14 | 0.55                | 8.87             | 1.4  |
| 20/6/2019      | 29.70                          | 7.40      | 2.3              | 41  | 18.2 | 0.18 | 0.77                | 8.05             | 2    |
| 27/6/2019      | 30.20                          | 6.60      | 2                | 52  | 16.8 | 0.17 | 0.75                | 7.34             | 2.1  |
| 4/7/2019       | 29.10                          | 7.30      | 2                | 27  | 5.8  | 0.16 | 0.46                | 7.30             | 2.9  |
| 11/7/2019      | 29.70                          | 6.80      | 2                | 22  | 6.8  | 0.16 | 0.75                | 6.62             | 2.1  |
| 18/7/2019      | 29.90                          | 6.90      | 2                | 11  | 5    | 0.18 | 0.41                | 6.72             | 2.2  |

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**Jabatan Perkhidmatan Pembetungan Sarawak**

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|----------------|--------------------------------|-----------|------------------|-----|------|------|---------------------|------------------|-----|
|                | Temperature                    | pH @ 25°C | BOD <sub>5</sub> | COD | SS   | TP   | Ammoniacal Nitrogen | Nitrate Nitrogen | O&G |
| Control / Base | 40                             | 6.0 - 9.0 | 20               | 120 | 50   | 5    | 10                  | 20               | 5   |
| 25/7/2019      | 29.30                          | 6.9       | 2                | 17  | 9.6  | 0.18 | 0.61                | 5.83             | 1.6 |
| 1/8/2019       | 30.60                          | 6.1       | 2                | 10  | 5    | 0.18 | 0.56                | 7.60             | 1.6 |
| 8/8/2019       | 31.20                          | 7         | 2                | 12  | 24.8 | 0.15 | 0.76                | 8.48             | 2.1 |
| 16/8/2019      | 30.70                          | 7.2       | 2                | 14  | 5    | 0.17 | 0.77                | 3.52             | 1.5 |
| 22/8/2019      | 30.90                          | 6.6       | 2                | 10  | 5    | 0.15 | 0.20                | 10.90            | 1.7 |
| 29/8/2019      | 28.70                          | 7.2       | 2                | 42  | 27   | 0.19 | 0.49                | 7.66             | 1.7 |
| 4/9/2019       | 31.00                          | 6.8       | 2                | 16  | 5    | 0.19 | 0.51                | 9.66             | 2   |
| 12/9/2019      | 31.10                          | 7.4       | 2                | 27  | 9.2  | 0.17 | 0.46                | 7.65             | 1.3 |
| 19/9/2019      | 30.50                          | 7.1       | 2                | 30  | 18.2 | 0.18 | 0.62                | 7.88             | 1.8 |
| 26/9/2019      | 27.90                          | 7.1       | 2.2              | 21  | 26.8 | 0.16 | 0.68                | 4.98             | 1.6 |
| 4/10/2019      | 28.30                          | 6.9       | 2                | 36  | 19.2 | 0.16 | 0.78                | 10.20            | 1.6 |
| 10/10/2019     | 29.40                          | 7.2       | 7.1              | 47  | 9.6  | 0.15 | 0.33                | 6.30             | 1.8 |
| 17/10/2019     | 31.10                          | 6.7       | 2                | 11  | 20   | 0.17 | 0.55                | 7.78             | 1.6 |
| 24/10/2019     | 29.60                          | 6.9       | 2.4              | 19  | 32   | 0.14 | 0.62                | 3.18             | 1.4 |
| 7/11/2019      | 30.30                          | 6.8       | 2                | 16  | 5    | 0.16 | 0.56                | 3.63             | 1.8 |
| 14/11/2019     | 29.00                          | 7.2       | 4.8              | 44  | 12.2 | 0.17 | 0.46                | 3.54             | 1.8 |
| 21/11/2019     | 28.60                          | 7.5       | 2                | 23  | 36.6 | 0.17 | 0.54                | 3.39             | 1.8 |
| 28/11/2019     | 30.20                          | 6.8       | 2                | 29  | 15.4 | 0.18 | 0.36                | 6.98             | 1.2 |
| 5/12/2019      | 28.10                          | 7.1       | 2                | 18  | 8    | 0.15 | 0.52                | 7.98             | 1.6 |
| 12/12/2019     | 27.70                          | 7.10      | 2                | 31  | 8.8  | 0.14 | 0.26                | 1.72             | 1.8 |
| 19/12/2019     | 31.30                          | 7.20      | 2                | 24  | 10   | 0.16 | 0.53                | 3.17             | 1.4 |
| 26/12/2019     | 29.90                          | 5.70      | 2                | 32  | 5.2  | 0.15 | 0.45                | 3.68             | 1   |