## Annex E2.3.2 Water Quality Anaysis Data of Rambutan Installation Treatment Plant

| Parameter | Unit | August,1 | | August,8 | | August,15 | | August,29 | | September,5 | | September,12 | | September,19 | | September,26 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Before | After | Before | After | Before | After | Before | After | Before | After | Before | After | Before | After | Before | After |
| Colour | mg/I Pt | | | | | | | | | | | | | | | | |
| Turbidity | NTU | 42.9 | 1.15 | 53.9 | 0.76 | 27.3 | 0.88 | 37.9 | 2.11 | 40.7 | 1.87 | 21.6 | 0.78 | 47.5 | 0.67 | **34.6** | **0.89** |
| pH | | 6.9 | 6.6 | 6.8 | 6.6 | 7.0 | 7.0 | 7 | 6.8 | 7.0 | 6.9 | 7.2 | 6.9 | 7.0 | 6.6 | **6.2** | **6.2** |
| Elctric Conductivity | mS/m | 6.58 | 7.46 | 7.82 | 9.91 | 93.4 | 106.1 | 0.864 | 0.917 | 0.99 | 1.123 | 9.3 | 9.8 | 78.5 | 100.6 | **77.0** | **93.3** |
| Water Temp | ℃ | 28.7 | 28.7 | 29.1 | 29.2 | 97.8 | 27.4 | 29.3 | 28.6 | 29.6 | 28.9 | 29.3 | 29.4 | 28.9 | 29.1 | **28.8** | **28.9** |
| TSS | mg/l | | | | | | | | | | | | | | | | |
| TDS | mg/l | 32.9 | 37.3 | 39.1 | 49.6 | 43.9 | 50.5 | 40.2 | 45.9 | 49.7 | 56.2 | 46.5 | 49.3 | 33.3 | 50 | **38.5** | **46.6** |
| Smell | mg/l | | | | | | | | | | | | | | | | |
| Taste | mg/l | | | | | | | | | | | | | | | | |
| Bicabonate | mg/l | 27.17 | 21.74 | 27.17 | 21.74 | 27.17 | 27.2 | 32.61 | 21.74 | 43.40 | 54.30 | 54.86 | 43.48 | 27.17 | 21.74 | **32.61** | **43.48** |
| Hardness | mg/l | 0.899 | 1.124 | 0.899 | 1.071 | 1.286 | 1.573 | 0.899 | 1.012 | 1.685 | 1.798 | 1.798 | 2.247 | 0.899 | 1.012 | **0.899** | **1.012** |
| Calcium | mg/l | 2.563 | 3.204 | 2.563 | 2.883 | 3.524 | 4.485 | 2.563 | 2.883 | 4.806 | 6.126 | 5.126 | 6.410 | 2.563 | 2.884 | **2.563** | **2.884** |
| Magnesium | mg/l | 2.333 | 2.916 | 2.333 | 2.625 | 3.208 | 4.083 | 2.333 | 2.625 | 4.374 | 4.666 | 4.667 | 5.830 | 2.333 | 2.625 | **2.333** | **2.625** |
| Fe | mg/l | 0.35 | 0.01 | 0.4 | 0.01 | 0.25 | 0.01 | 0.35 | 0.01 | 0.3 | 0.1 | 0.3 | 0.01 | 0.3 | 0.01 | **0.3** | **0.01** |
| Allumunium | mg/l | x | x | x | x | x | x | x | x | x | x | x | x | x | x | **x** | **x** |
| Manganese | mg/l | 0.05 | 0 | 0.05 | 0 | 0.1 | 0.0 | 0.05 | 0 | 0.05 | 0 | 0.05 | 0 | 0.05 | 0 | **0.05** | **0** |
| NH3 | mg/l | 0.25 | 0.1 | 0.25 | 0.1 | 0.2 | 0.05 | 0.15 | 0.1 | 0.15 | 0.1 | 0.15 | 0.1 | 0.15 | 0.05 | **0.2** | **0.1** |
| NO2 | mg/l | 0.003 | 0.001 | 0.003 | 0.001 | 0.002 | 0.001 | 0.004 | 0.02 | 0.004 | 0.002 | 0.004 | 0.002 | 0.004 | 0.001 | **0.004** | **0.002** |
| NO3 | mg/l | x | x | x | x | x | x | x | x | x | x | x | x | x | x | **x** | **x** |
| KMnO4 Demand | mg/l | 18.94 | 6.606 | 18.34 | 9.915 | 17.14 | 9.012 | 18.64 | 10.82 | 15.03 | 1.191 | 32.78 | 8.711 | 14.13 | 0.589 | **15.03** | **0.589** |
| Chloride | | 12.43 | 15.97 | 12.43 | 15.97 | 23.07 | 26.63 | 17.75 | 21.30 | 17.75 | 24.85 | 24.85 | 21.30 | 12.43 | 24.85 | **10.65** | **14.2** |
| Sulphate | | 1.5 | 17.5 | 3.0 | 20.5 | 1.5 | 21.5 | 3.0 | 19.0 | 1.5 | 24 | 1.5 | 26.5 | 1.5 | 20.5 | **2.0** | **20.5** |
| O2 | mg/l | 5.0 | 6.5 | 5.0 | 6.5 | 4.0 | 6.5 | 4.0 | 6.5 | 5.0 | 6 | 4.0 | 6.0 | 4.0 | 6.5 | **4.0** | **6.5** |
| Phosphate | mg/l | x | x | x | x | x | x | x | x | x | x | x | x | x | x | **x** | **x** |
| Cl2 | mg/l | 0 | 0.3 | x | 0.4 | 0.0 | 0.3 | 0.0 | 0.6 | 0.0 | 0.4 | 0.0 | 0.05 | 0 | 0.8 | **0.0** | **0.2** |
| Total carbon dioxide | mg/l | 3.0 | 5.0 | 2.5 | 4.0 | 2.0 | 2.0 | 2.0 | 4.0 | 6.0 | | 2.0 | 3.5 | 2.0 | 4.0 | **9.5** | **9.5** |
| Total coliform | N/100ml | | | | | | | | | | | | | | | | |
| E coli. | N/100ml | | | | | | | | | | | | | | | | |
| Fecal Coliform | N/100ml | | | | | | | | | | | | | | | | |