

Tung Chung New Town Extension (West)
Ecologically-related Water Quality Monitoring Results

Reporting Month: Aug-2023

| Monitoring Station | | RP1 | | RP2 | | RP4 | | PW1 | | PW3 | |
|------------------------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Replicate | Unit | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |
| Sampling Time | - | 08:55 | 08:55 | 10:00 | 10:00 | 10:35 | 10:35 | 09:25 | 09:25 | 13:30 | 13:30 |
| Weather | - | Sunny | Sunny | Sunny | Sunny | Sunny | Sunny | Sunny | Sunny | Sunny | Sunny |
| Sampling Depth | m | 0.2 | 0.2 | 0.2 | 0.2 | 0.4 | 0.4 | 0.2 | 0.2 | 0.4 | 0.4 |
| Parameter | | | | | | | | | | | |
| pH | | 7.4 | 7.2 | 6.8 | 6.8 | 9.3 | 9.4 | 7.2 | 7.0 | 8.2 | 8.1 |
| Salinity | ppt | 0.02 | 0.02 | 0.04 | 0.04 | 0.06 | 0.06 | 0.03 | 0.03 | 2.99 | 2.90 |
| Temperature | °C | 27.0 | 27.1 | 27.6 | 27.6 | 29.4 | 29.5 | 27.3 | 27.3 | 29.0 | 29.0 |
| Turbidity | NTU | 1.4 | 1.5 | 4.7 | 4.0 | 10.1 | 10.4 | 3.8 | 3.8 | 56.6 | 59.4 |
| DO | mg/L | 9.0 | 8.6 | 7.1 | 7.1 | 6.7 | 6.7 | 6.7 | 6.8 | 6.4 | 6.4 |
| DO Saturation | % | 112.6 | 107.6 | 90.0 | 89.5 | 87.5 | 87.2 | 84.1 | 85.4 | 84.1 | 84.3 |
| Suspended Solids | mg/L | 0.7 | 0.9 | 3.1 | 3.1 | 8.0 | 7.6 | 3.0 | 3.4 | 69.6 | 96.2 |
| Ammonia as N | mg/L | <0.01 | <0.01 | 0.01 | 0.02 | 0.07 | 0.07 | 0.04 | 0.14 | <0.01 | <0.01 |
| Total Kjeldahl Nitrogen as N | mg/L | 0.06 | 0.05 | 0.14 | 0.12 | 0.20 | 0.20 | 0.07 | 0.29 | 0.42 | 0.48 |
| Total Phosphorus as P | mg/L | <0.01 | <0.01 | 0.03 | 0.03 | 0.04 | 0.04 | 0.01 | 0.04 | 0.11 | 0.13 |
| <i>Escherichia coli</i> | CFU/100mL | 95 | 70 | 390 | 320 | 120 | 160 | 170 | 160 | 9000 | 8500 |
| Biochemical Oxygen Demand | mg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1.1 | 1.4 |
| Chemical Oxygen Demand | mg/L | 3 | 3 | 3 | 3 | 5 | 4 | 4 | 3 | 29 | 29 |
| Oil & Grease | mg/L | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |

Ecological Monitoring at the monitoring station RP3 and PW2 were suspended since March 2023 with the commencement of temporary river diversion in Tung Chung Stream.