

**Water Quality Data of South West Lantau from July to September 2023 (3rd Quarter)**

|                                        | Yi O    |        | Fan Lau West |        | Fan Lau East |        | Pak Kok |        |
|----------------------------------------|---------|--------|--------------|--------|--------------|--------|---------|--------|
|                                        | Surface | Bottom | Surface      | Bottom | Surface      | Bottom | Surface | Bottom |
| Water Depth                            |         |        |              |        |              |        |         |        |
| Air Temperature (°C)                   | 29.7    |        | 29.5         |        | 29.5         |        | 29.5    |        |
| Water Temperature (°C)                 | 29.30   | 24.70  | 27.10        | 25.10  | 28.40        | 28.20  | 27.90   | 24.70  |
| Salinity (‰)                           | 20.90   | 34.30  | 30.60        | 33.60  | 24.80        | 25.80  | 28.30   | 34.30  |
| Dissolved Oxygen (mg/L)                | 6.00    | 4.10   | 6.20         | 4.40   | 6.50         | 6.20   | 6.70    | 3.80   |
| pH                                     | 8.00    | 7.90   | 8.00         | 7.90   | 8.00         | 8.00   | 8.10    | 7.90   |
| Secchi Disc Depth (m)                  | 0.5     |        | 0.3          |        | 0.3          |        | 0.5     |        |
| Turbidity (NTU)                        | 3.00    | 3.00   | 3.00         | 3.00   | 3.50         | 4.00   | 4.50    | 4.50   |
| Suspended Solids (mg/L)                | 3.50    | 4.00   | 5.00         | 5.50   | 4.00         | 8.00   | 6.00    | 6.50   |
| 5-Day Biochemical Oxygen Demand (mg/L) | <2      | <2     | <2           | <2     | <2           | <2     | <2      | <2     |
| Ammoniacal Nitrogen (mg/L)             | <0.01   | <0.01  | 0.01         | 0.01   | <0.01        | <0.01  | <0.01   | <0.01  |
| Unionized Ammonia (mg/L)               | <0.01   | <0.01  | <0.01        | <0.01  | <0.01        | <0.01  | <0.01   | <0.01  |
| Nitrite Nitrogen (mg/L)                | 0.12    | 0.09   | 0.06         | 0.06   | 0.09         | 0.10   | 0.08    | 0.07   |
| Nitrate Nitrogen (mg/L)                | 0.93    | 0.54   | 0.09         | 0.06   | 0.75         | 0.75   | 0.34    | 0.33   |
| Total Inorganic Nitrogen (mg/L)        | 1.05    | 0.64   | 0.38         | 0.38   | 0.84         | 0.84   | 0.42    | 0.41   |
| Total Kjeldahl Nitrogen (mg/L)         | 0.15    | 0.15   | 0.20         | 0.20   | 0.10         | 0.10   | 0.20    | 0.20   |
| Total Nitrogen (mg/L)                  | 1.20    | 0.75   | 0.50         | 0.55   | 1.00         | 1.00   | 0.60    | 0.60   |
| Orthophosphate Phosphorus (mg/L)       | 0.02    | 0.02   | <0.01        | <0.01  | 0.01         | 0.01   | 0.01    | 0.01   |
| Total Phosphorus (mg/L)                | <0.1    | <0.1   | <0.1         | <0.1   | <0.1         | <0.1   | <0.1    | <0.1   |
| Chlorophyll-a (µg/L)                   | 12.20   | 3.70   | 6.90         | 6.80   | 8.80         | 7.70   | 5.90    | 7.30   |
| <i>E. coli</i> (cfu/100 mL)            | 0       | 2      | 0            | 1      | 1            | 0      | 0       | 1      |
| Faecal Coliforms (cfu/100 mL)          | 0       | 7      | 3            | 3      | 1            | 1      | 1       | 2      |