

**Water quality of The Brothers Marine Park in Year 2020**

|                                        | West Brother |        | East Brother |        |
|----------------------------------------|--------------|--------|--------------|--------|
|                                        | Surface      | Bottom | Surface      | Bottom |
| Water Depth                            |              |        |              |        |
| Air Temperature (°C)                   | 21.45        |        | 21.45        |        |
| Temperature (°C)                       | 24.08        | 23.68  | 24.11        | 23.70  |
| Salinity (‰)                           | 28.45        | 29.00  | 28.34        | 28.74  |
| Dissolved Oxygen (mg/L)                | 7.73         | 6.11   | 6.30         | 6.25   |
| pH                                     | 7.90         | 7.93   | 7.90         | 7.93   |
| Secchi Disc Depth (m)                  | 1.0          |        | 1.0          |        |
| Turbidity (NTU)                        | 4.00         | 4.25   | 4.25         | 4.38   |
| Suspended Solids (mg/L)                | 7.63         | 7.25   | 6.50         | 7.75   |
| 5-Day Biochemical Oxygen Demand (mg/L) | <2           | <2     | <2           | <2     |
| Ammoniacal Nitrogen (mg/L)             | 0.07         | 0.07   | 0.08         | 0.07   |
| Unionized Ammonia (mg/L)               | <0.01        | <0.01  | <0.01        | <0.01  |
| Nitrite Nitrogen (mg/L)                | 0.40         | 0.42   | 0.42         | 0.43   |
| Nitrate Nitrogen (mg/L)                | 0.05         | 0.05   | 0.05         | 0.05   |
| Total Inorganic Nitrogen (mg/L)        | 0.52         | 0.53   | 0.55         | 0.55   |
| Total Kjeldahl Nitrogen (mg/L)         | 0.33         | 0.30   | 0.35         | 0.33   |
| Total Nitrogen (mg/L)                  | 0.76         | 0.79   | 0.84         | 0.81   |
| Orthophosphate Phosphorus (mg/L)       | 0.02         | 0.02   | 0.02         | 0.02   |
| Total Phosphorus (mg/L)                | <0.1         | <0.1   | <0.1         | <0.1   |
| Chlorophyll-a (µg/L)                   | 3.56         | 3.60   | 3.85         | 3.58   |
| <i>E. coli</i> (cfu/100 mL)            | 56           | 70     | 54           | 56     |
| Faecal Coliforms (cfu/100 mL)          | 103          | 131    | 104          | 94     |