

Figure 1: Level of pH recorded during Routine Water Quality Monitoring for disposal operations at ESC CMP Vd in August 2016.

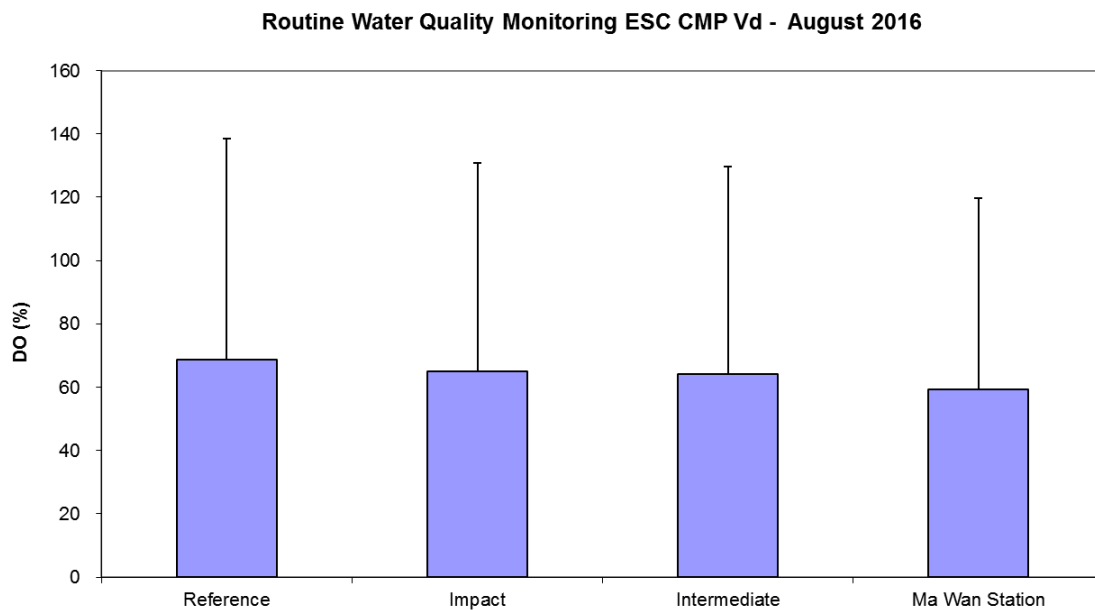


Figure 2: Level of Dissolved Oxygen (DO) (% saturation; mean + SD) recorded during Routine Water Quality Monitoring for disposal operations at ESC CMP Vd in August 2016.

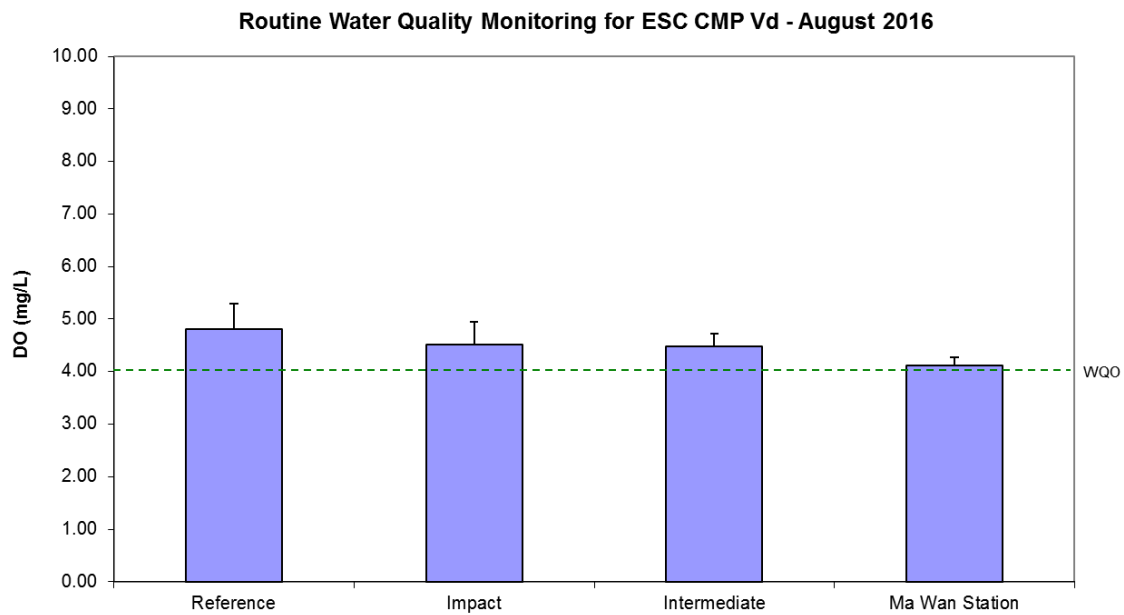


Figure 3: Concentration of Dissolved Oxygen (DO) (mg/L; mean + SD) recorded during Routine Water Quality Monitoring for disposal operations at ESC CMP Vd in August 2016.

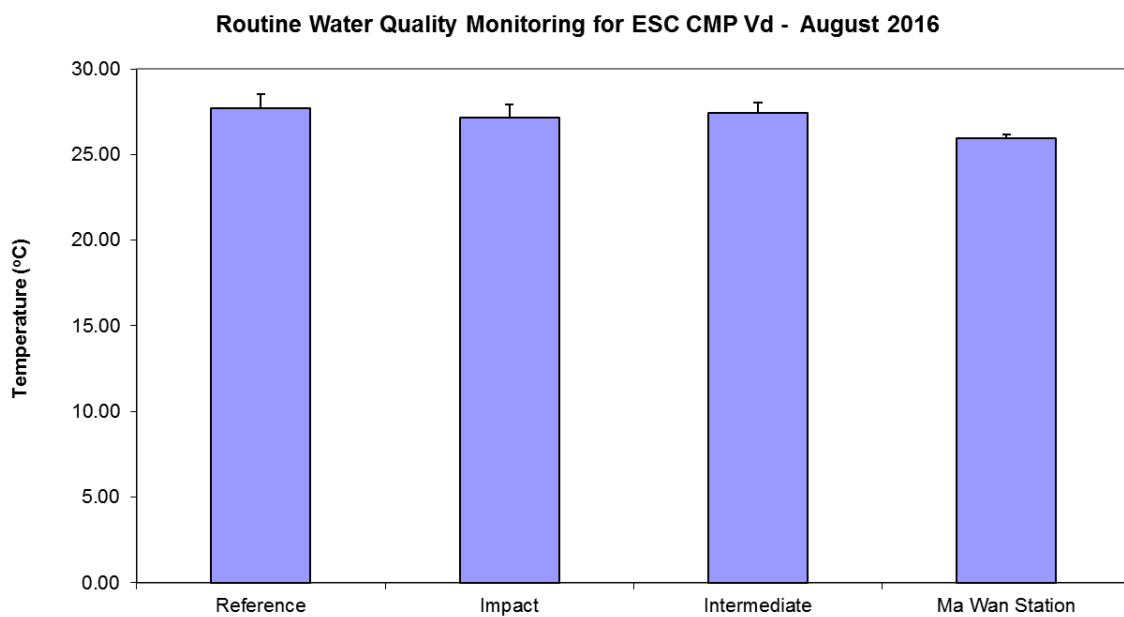


Figure 4: Level of Temperature (°C; mean + SD) recorded during Routine Water Quality Monitoring for disposal operations at ESC CMP Vd in August 2016.

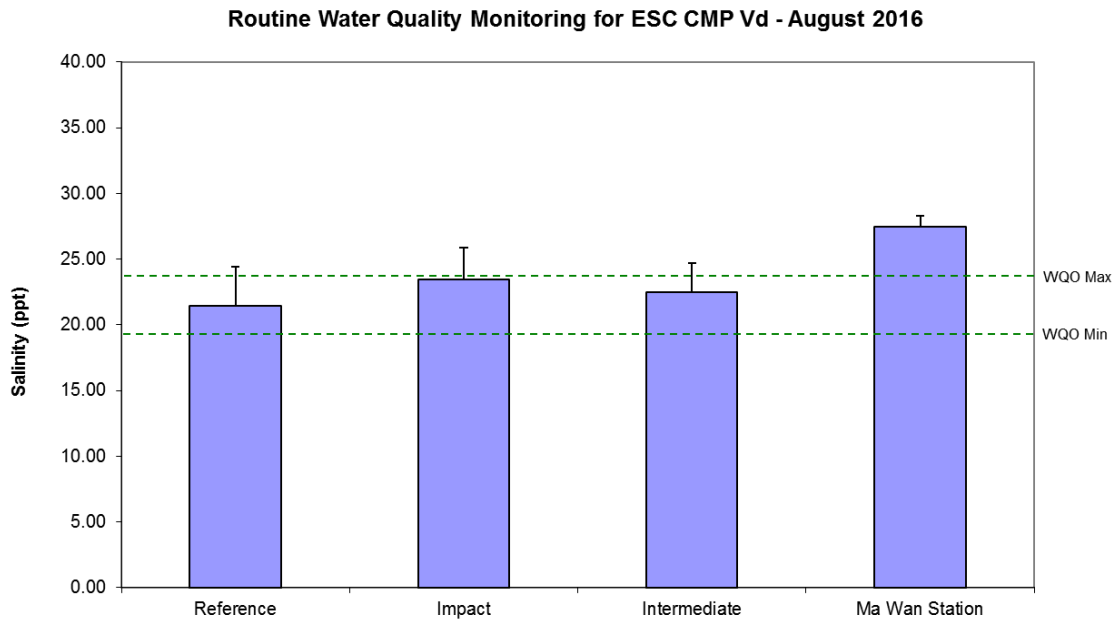


Figure 5: Level of Salinity (ppt; mean + SD) recorded during Routine Water Quality Monitoring for disposal operations at ESC CMP Vd in August 2016.

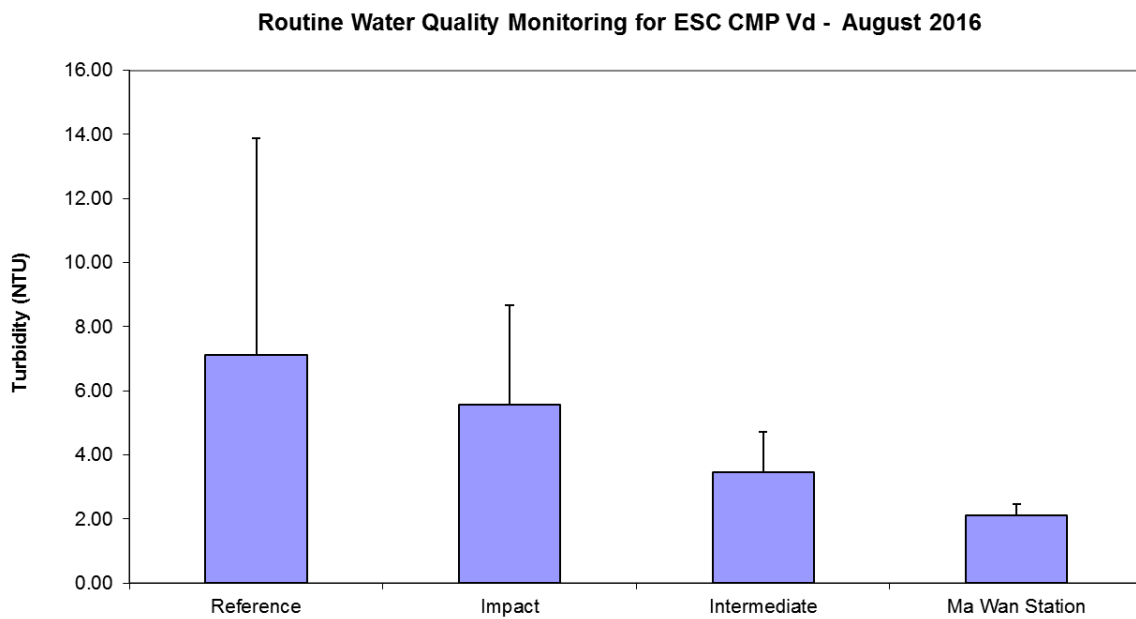


Figure 6: Levels of Turbidity (NTU; mean + SD) recorded during Routine Water Quality Monitoring for disposal operations at ESC CMP Vd in August 2016.

**Routine Water Quality Monitoring for Metals and Metalloid
August 2016**

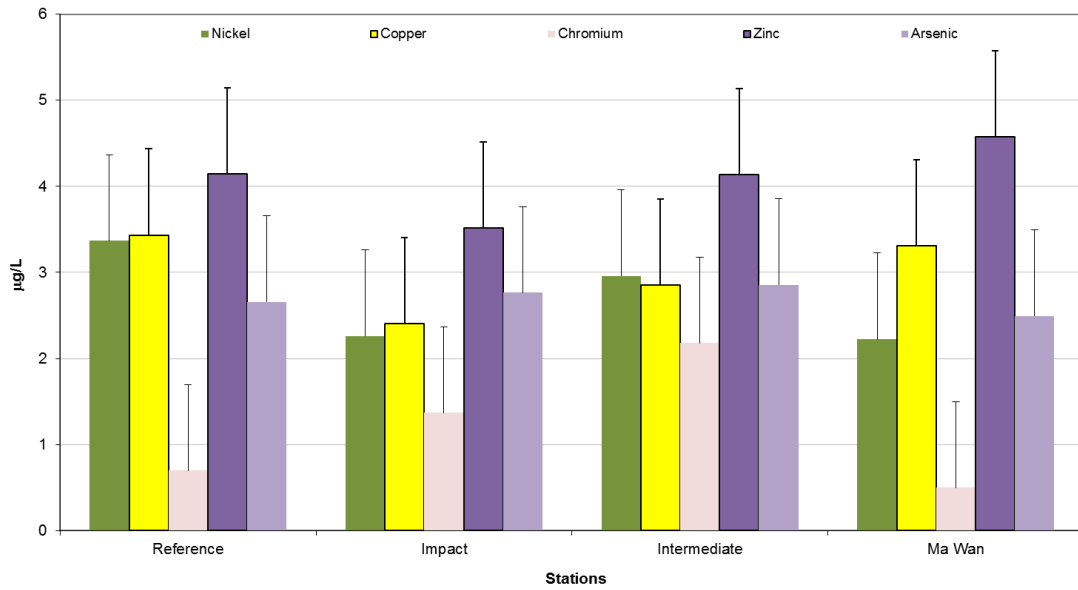


Figure 7: Concentration of Copper, Chromium, Zinc, Arsenic and Nickel ($\mu\text{g/L}$; mean + SD) in water samples collected from Routine Water Quality Monitoring for disposal operations at ESC CMP Vd in August 2016.

**Routine Water Quality Monitoring Results for Nutrients
August 2016**

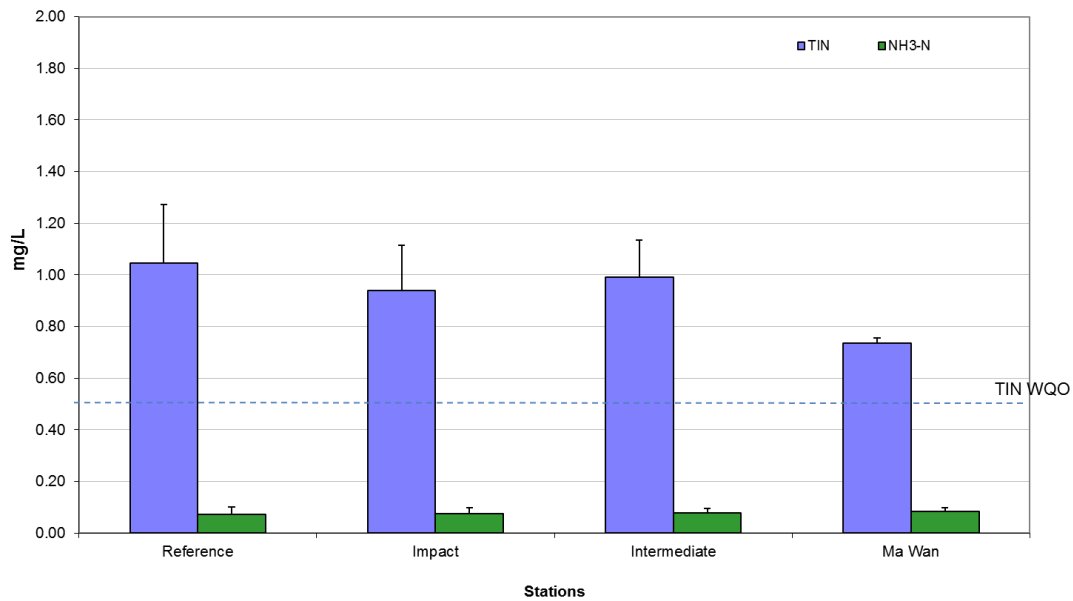


Figure 8: Concentration of Total Inorganic Nitrogen (TIN) and Ammonia Nitrogen (NH₃-N) ($\mu\text{g/L}$; mean + SD) in water samples collected from Routine Water Quality Monitoring for disposal operations at ESC CMP Vd in August 2016.

**Routine Water Quality Monitoring Results for Biochemical Oxygen Demand (BOD₅)
August 2016**

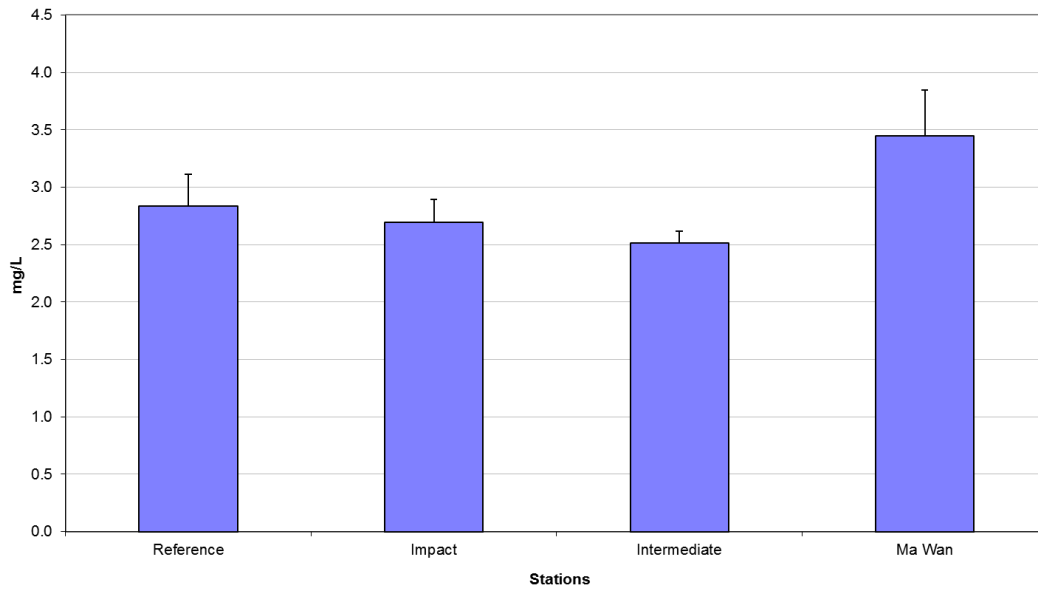


Figure 9: Level of Biochemical Oxygen Demand (BOD₅) (mg/L; mean + SD) in water samples collected from Routine Water Quality Monitoring for disposal operations at ESC CMP Vd in August 2016.

**Routine Water Quality Monitoring for Suspended Solids
August 2016**

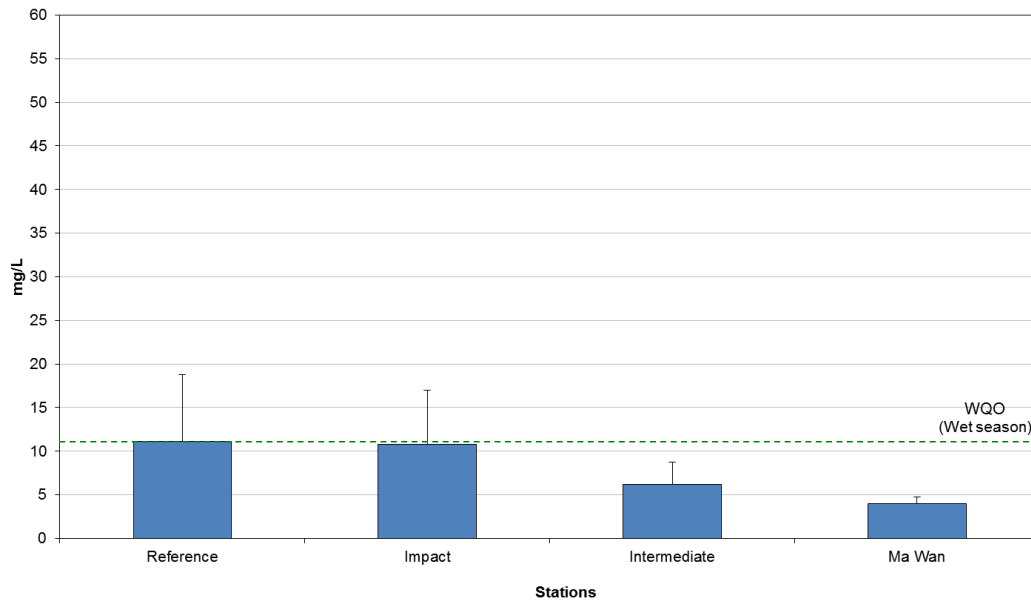


Figure 10: Concentration of Suspended Solids (SS) (mg/L; mean + SD) in water samples collected from Routine Water Quality Monitoring for disposal operations at ESC CMP Vd in August 2016.

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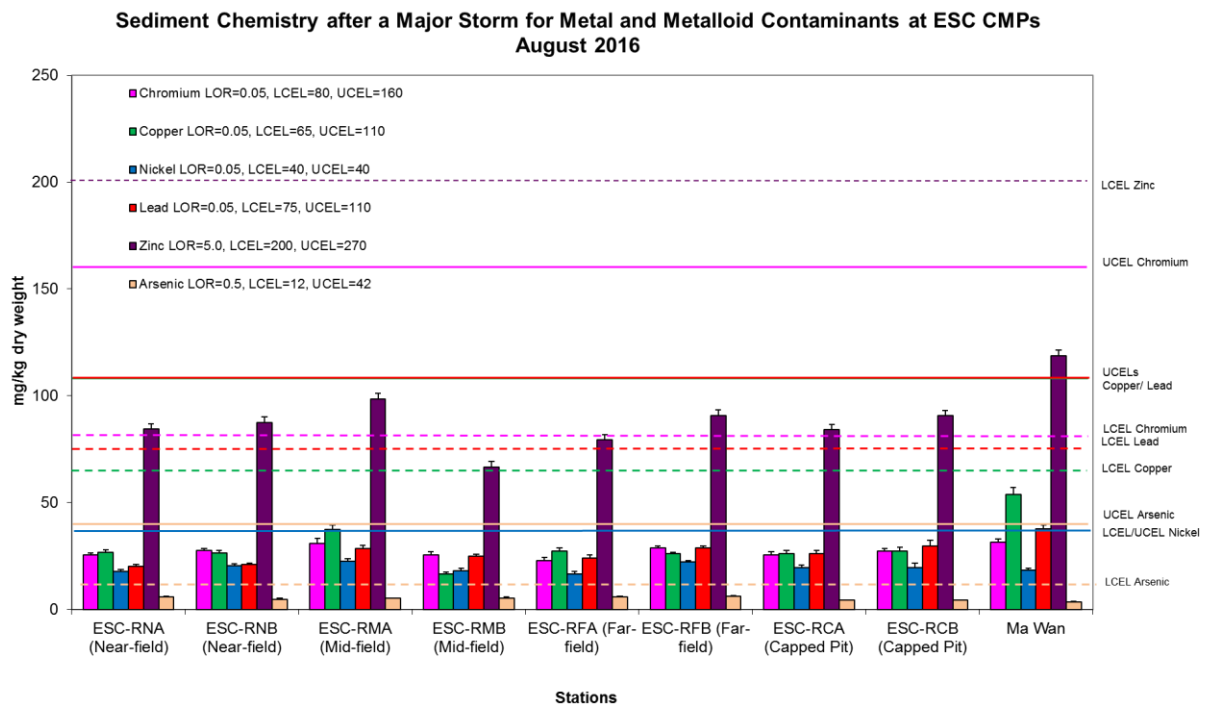


Figure 11: Concentration of Metals (Cr, Cu, Ni, Pb, Zn, As; mean +SD) in sediment samples collected from *Sediment Chemistry after a Major Storm* for SB CMPs in August 2016.

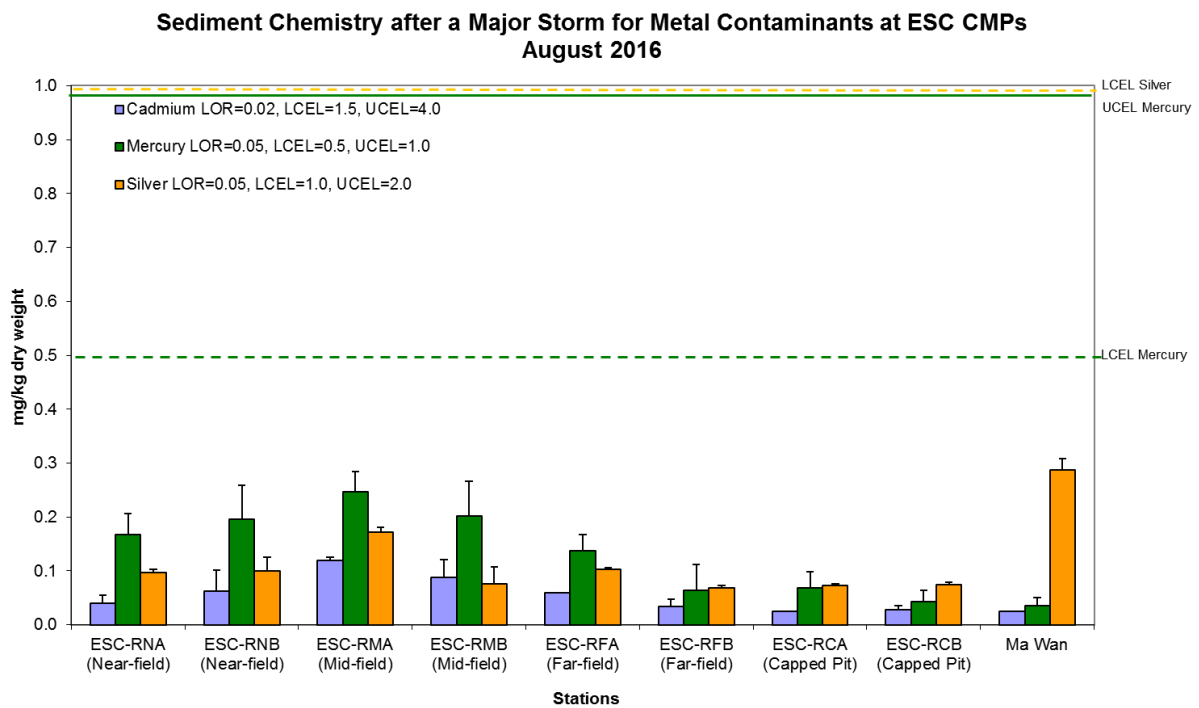


Figure 12: Concentration of Metals (Cd, Hg, Ag; mean +SD) in sediment samples collected from *Sediment Chemistry after a Major Storm* for SB CMPs in August 2016.

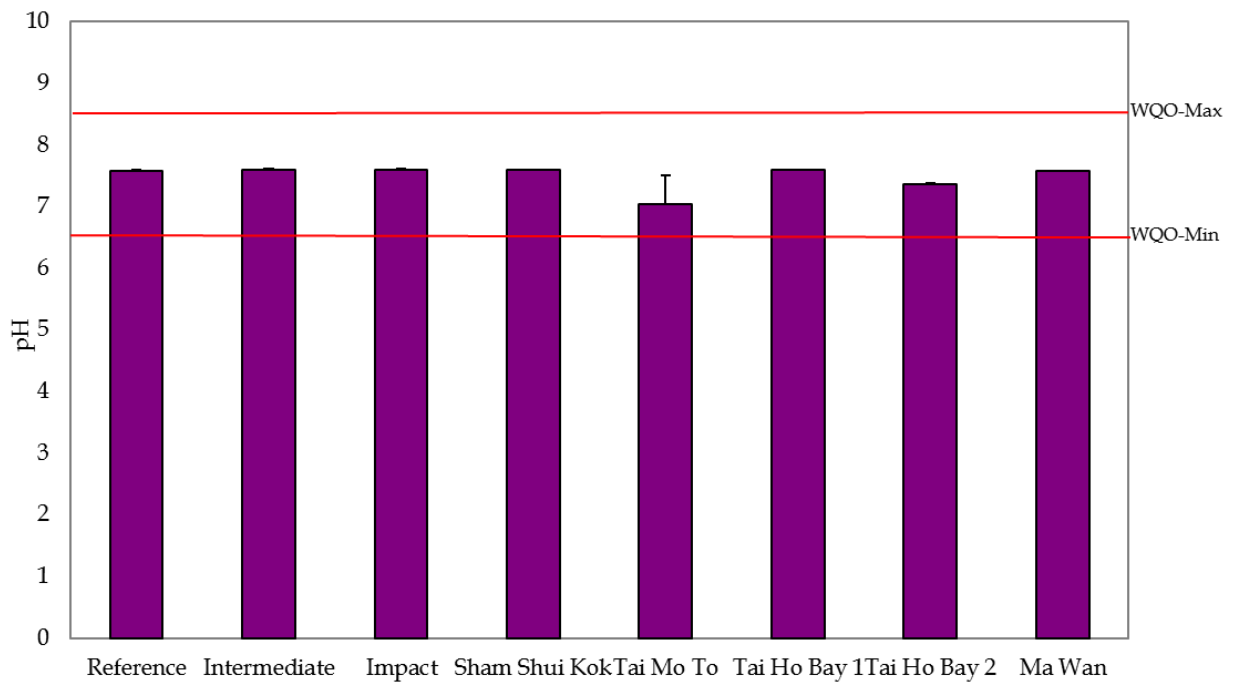


Figure 13: Levels of pH (mean +SD) recorded from Water Quality Monitoring during Capping of SB CMPs in August 2016.

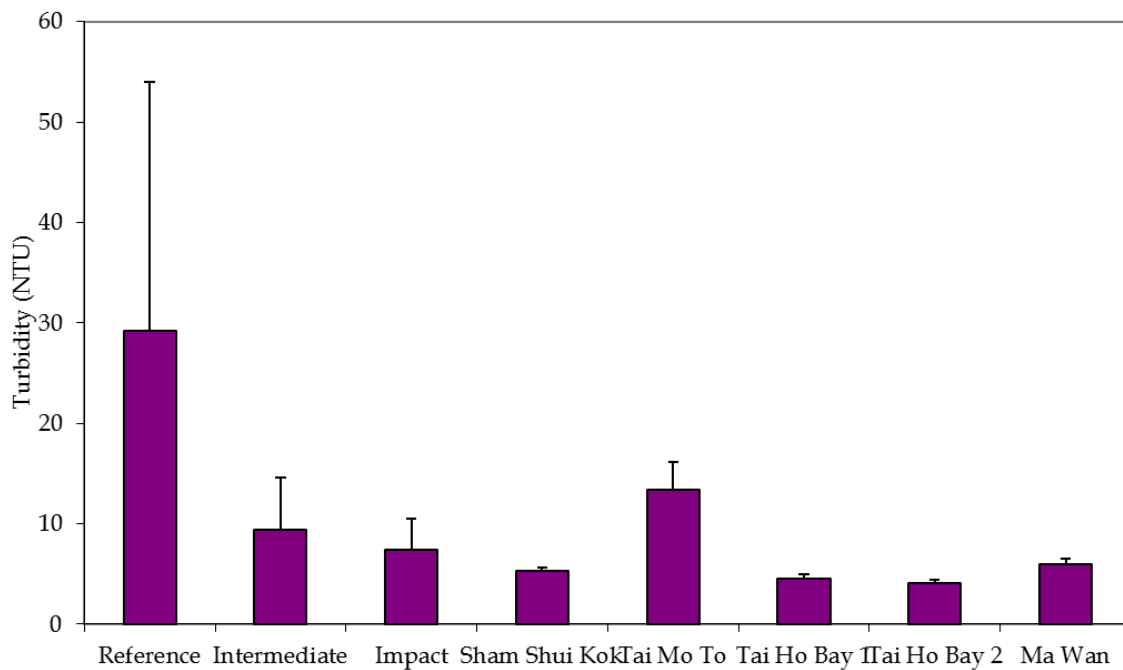


Figure 14: Levels of Turbidity (NTU; mean +SD) recorded from Water Quality Monitoring during Capping of SB CMPs in August 2016

Source: H:\Team\EM\GMS Projects\0175086 CEDD EM&A for South Brothers\02 Deliverable\07 CMP Monthly Report\48th (August 2016)

Date: 10/9/2016

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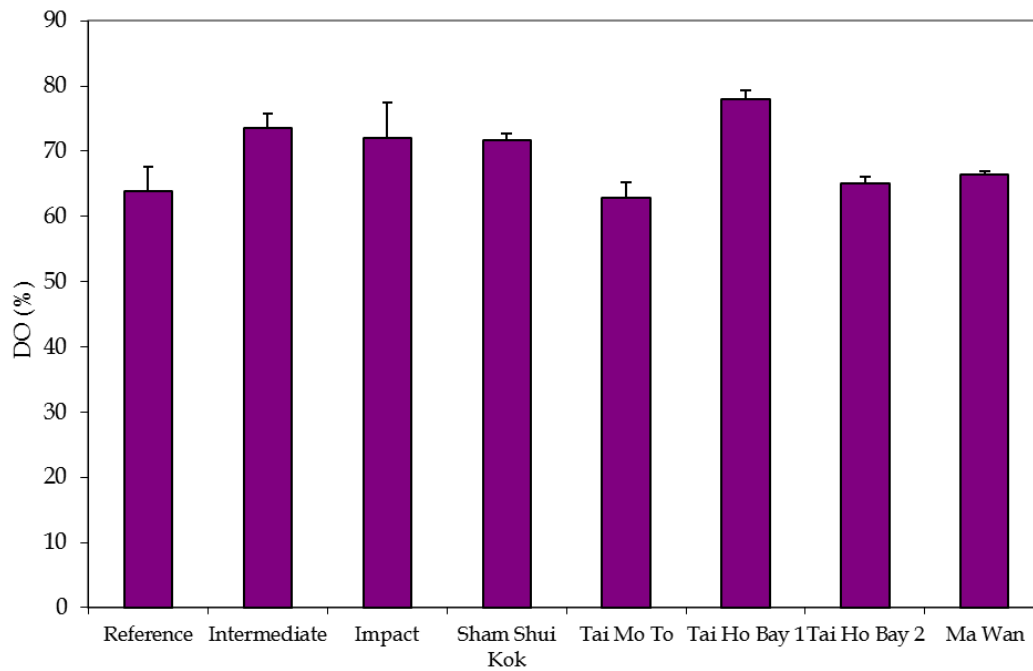


Figure 15: Levels of Dissolved Oxygen (% saturation; mean +SD) recorded from Water Quality Monitoring during Capping of SB CMPs in August 2016

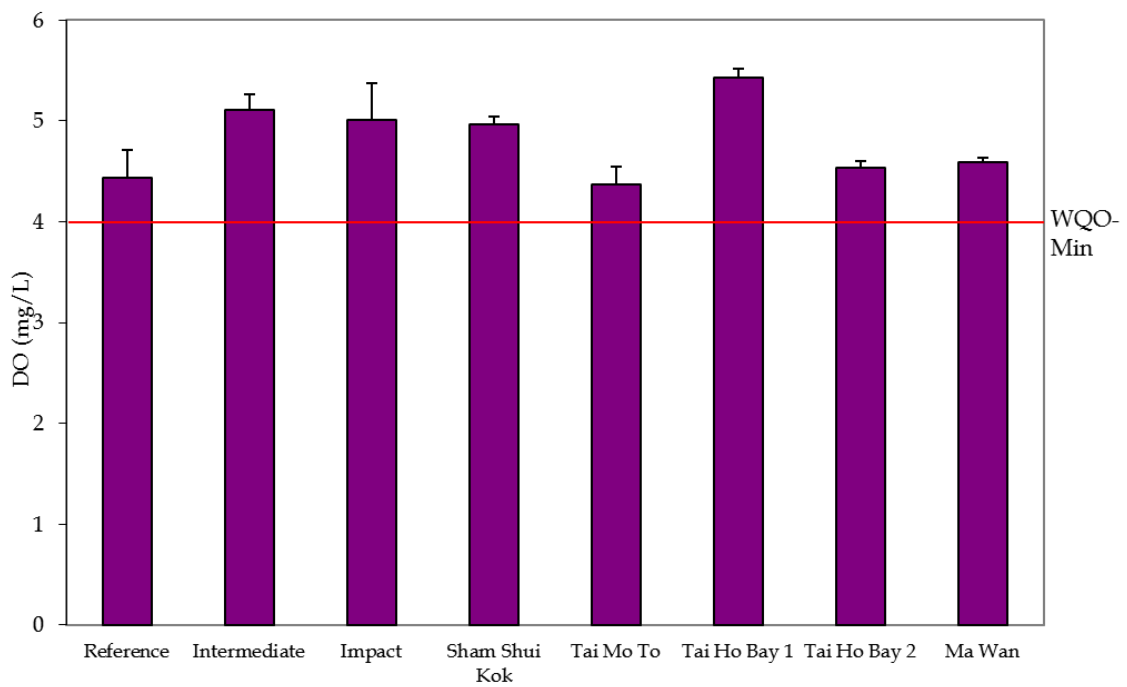


Figure 16: Levels of Dissolved Oxygen (mg/L; mean +SD) recorded from Water Quality Monitoring during Capping of SB CMPs in August 2016

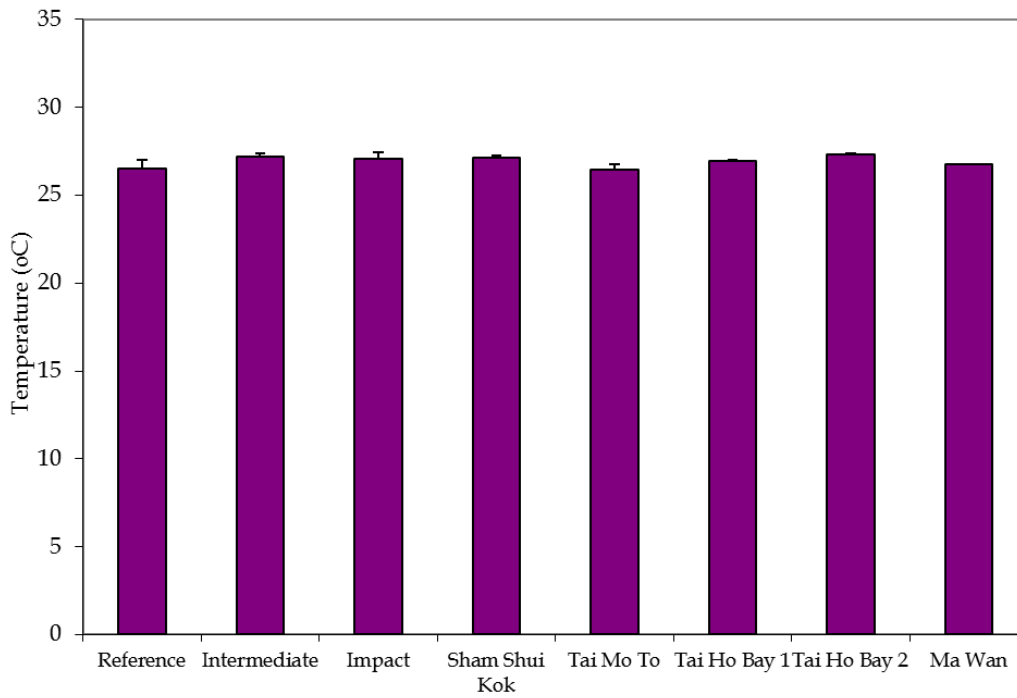


Figure 17: Levels of Temperature (°C; mean +SD) recorded from Water Quality Monitoring during Capping of SB CMPs in August 2016.

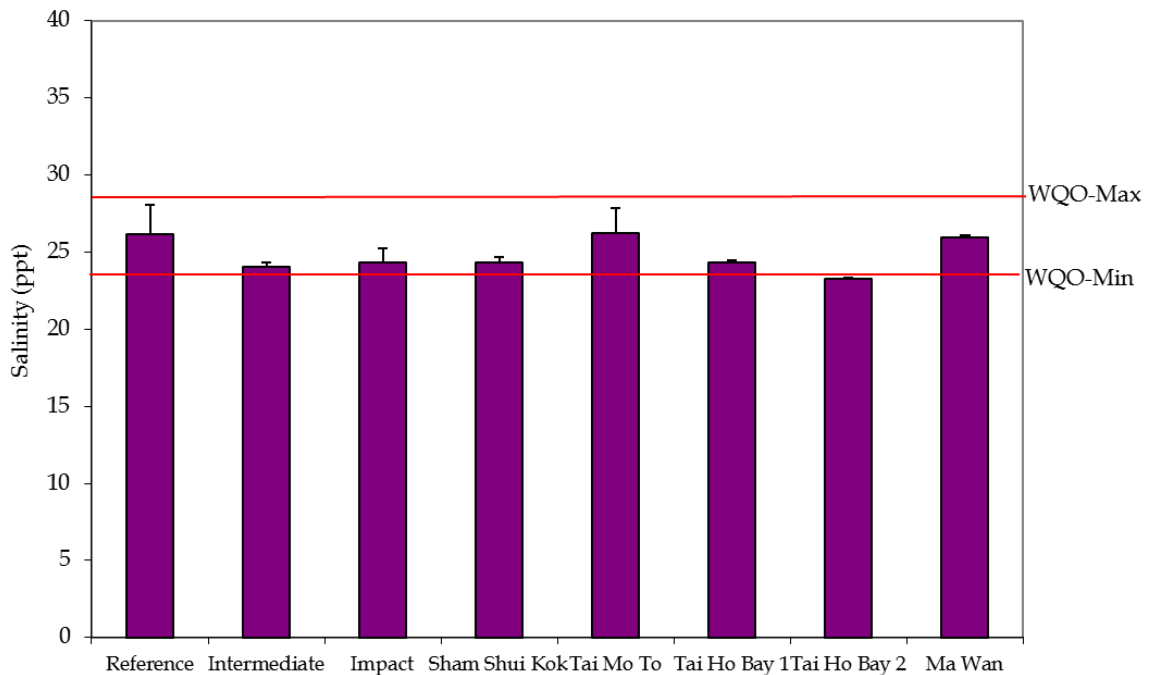


Figure 18: Levels of Salinity (ppt; mean +SD) recorded from Water Quality Monitoring during Capping of SB CMPs in August 2016.

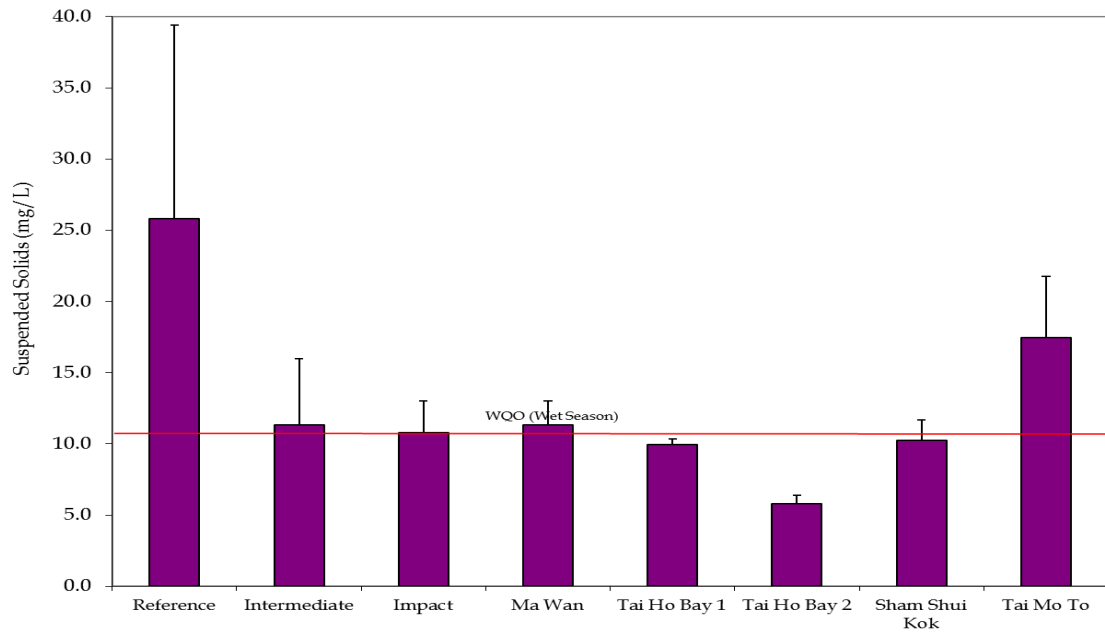


Figure 19: Levels of Suspended Solids (mg/L; mean +SD) recorded from Water Quality Monitoring during Capping of SB CMPs in August 2016

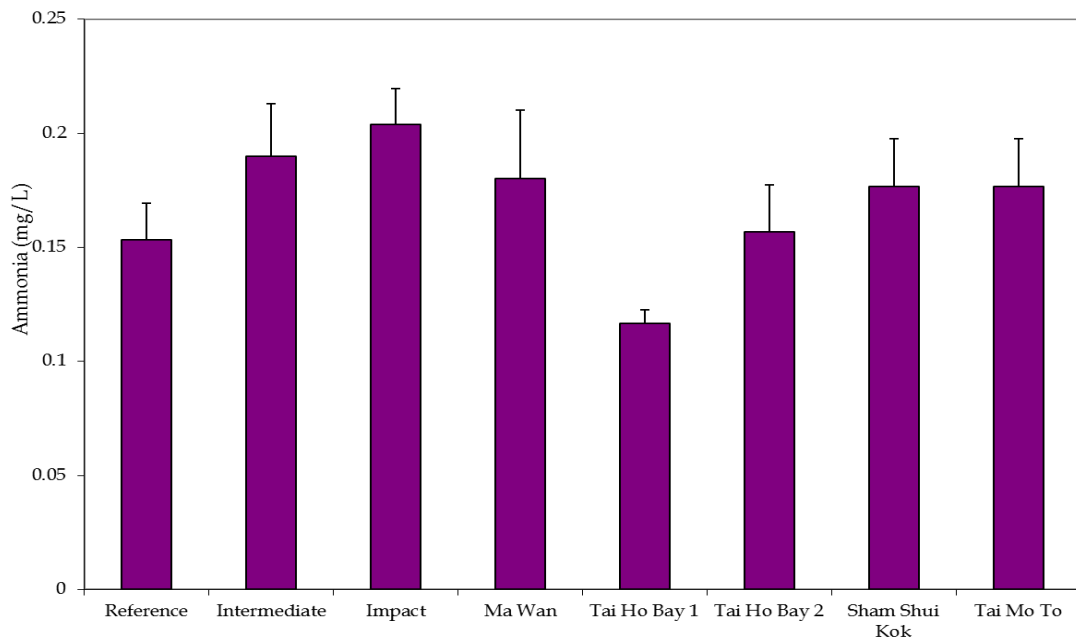


Figure 20: Level of Ammonia (mg/L; mean + SD) recorded from Water Quality Monitoring during Capping for SB CMPs in August 2016.

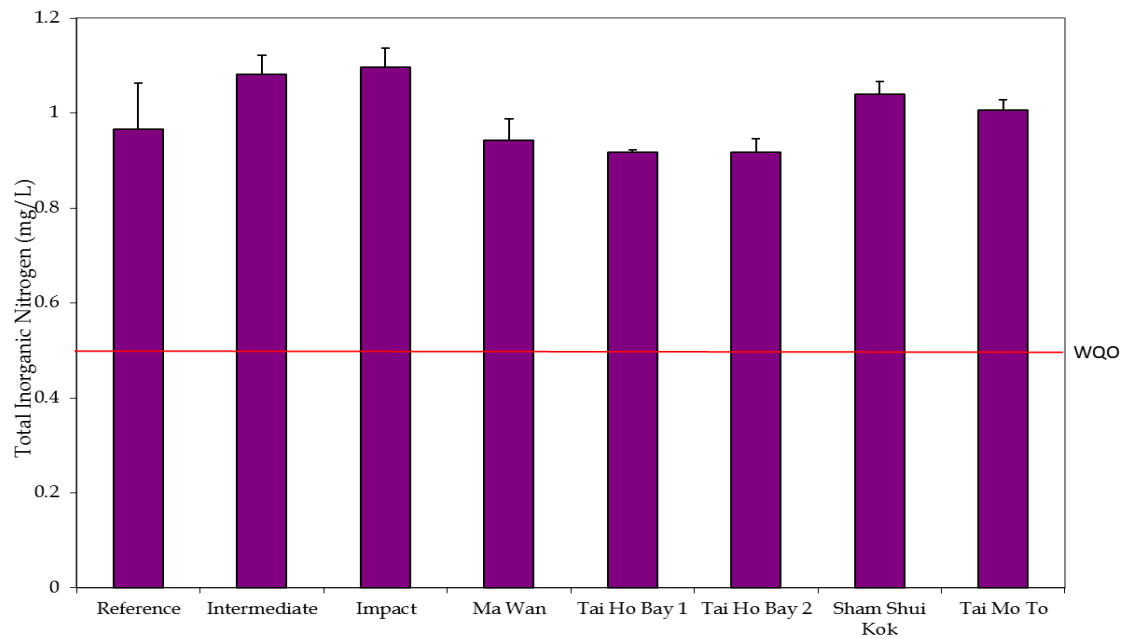


Figure 21: Level of TIN (mg/L; mean + SD) recorded from Water Quality Monitoring during Capping for SB CMPs in August 2016

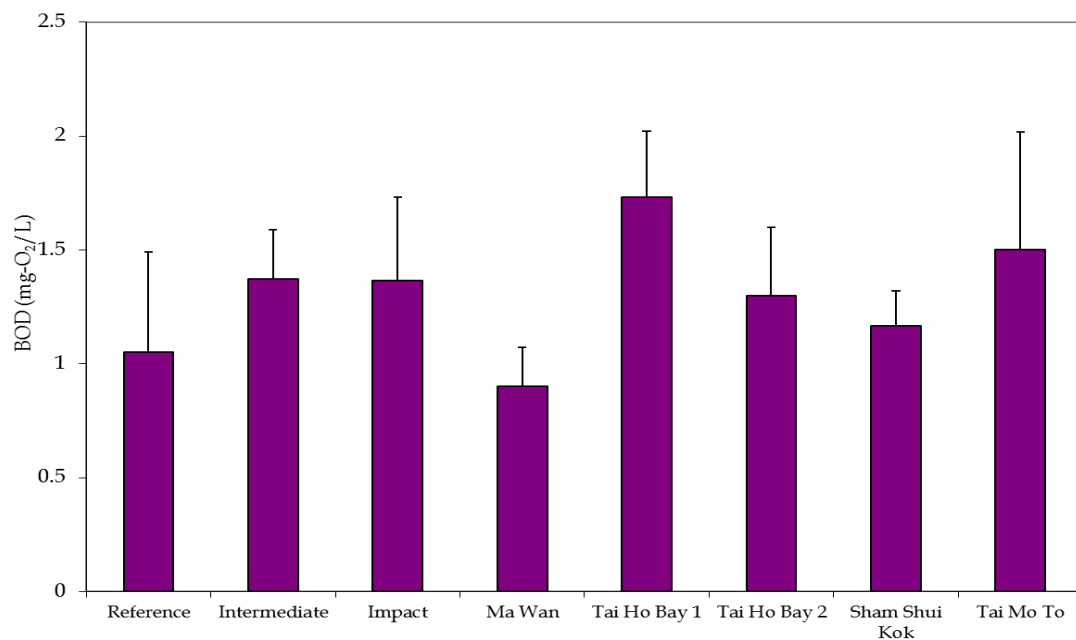


Figure 22: Level of BOD₅ (mg-O₂/L; mean + SD) recorded from Water Quality Monitoring during Capping for SB CMPs in August 2016.