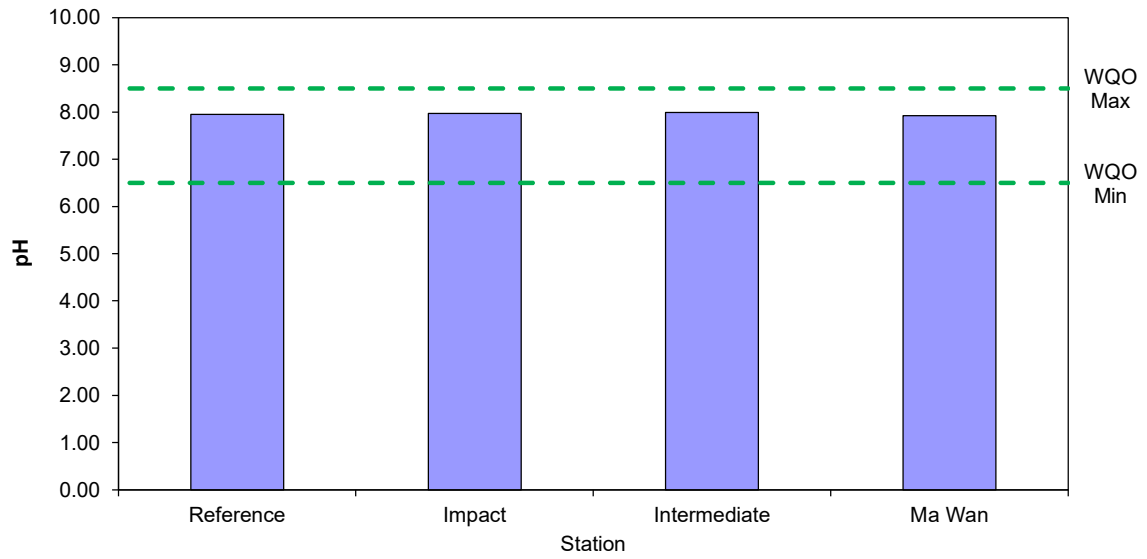
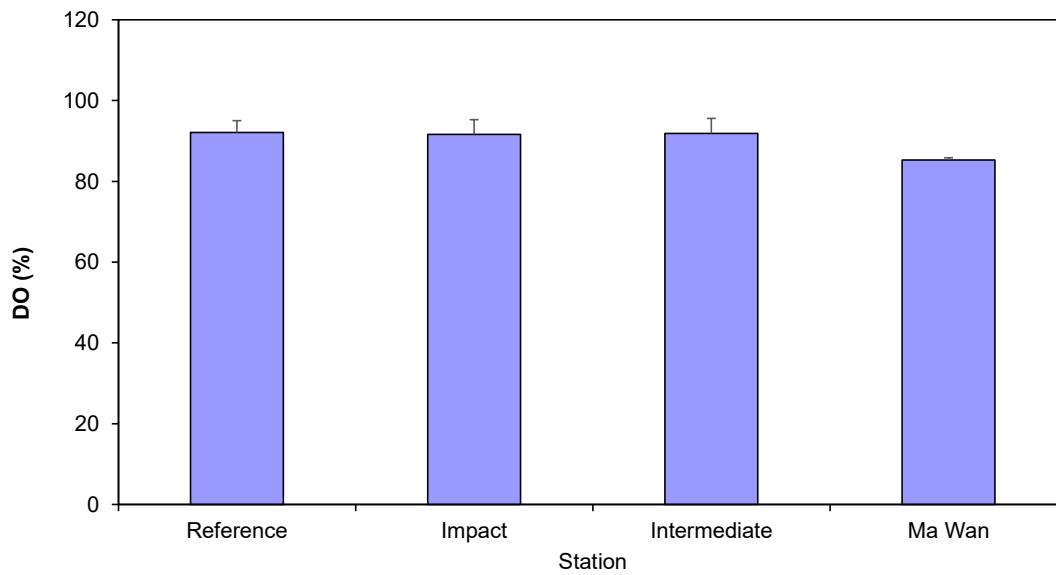


### Routine Water Quality Monitoring for ESC CMP V - December 2023



**Figure 1:** Level of pH recorded during Routine Water Quality Monitoring for disposal operations at ESC CMP V in December 2023

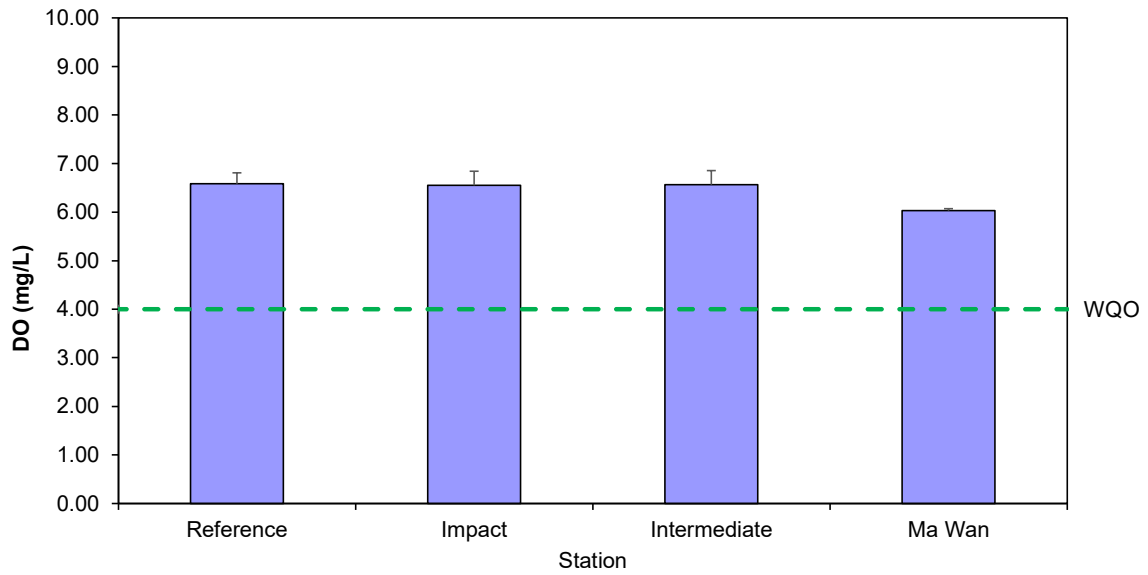
### Routine Water Quality Monitoring for ESC CMP V - December 2023



**Figure 2:** Level of Dissolved Oxygen (DO) (% saturation; mean + SD<sup>1</sup>) recorded during Routine Water Quality Monitoring for disposal operations at ESC CMP V in December 2023

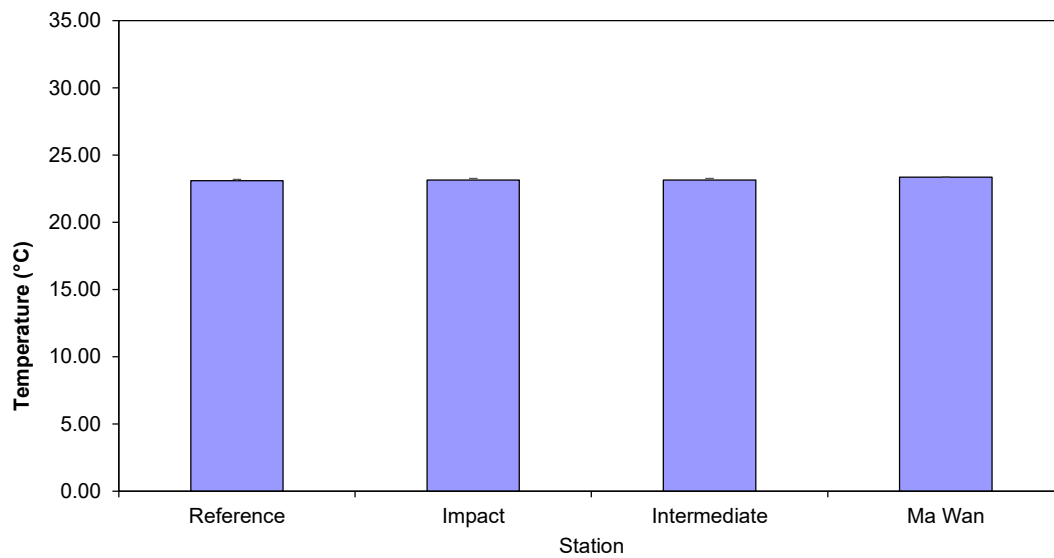
<sup>1</sup> The mean and standard deviation (SD) for in-situ data are the mean and SD for water columns within the area.

### Routine Water Quality Monitoring for ESC CMP V - December 2023



**Figure 3:** Concentration of Dissolved Oxygen (DO) (mg/L; mean + SD)<sup>1</sup> recorded during Routine Water Quality Monitoring for disposal operations at ESC CMP V in December 2023

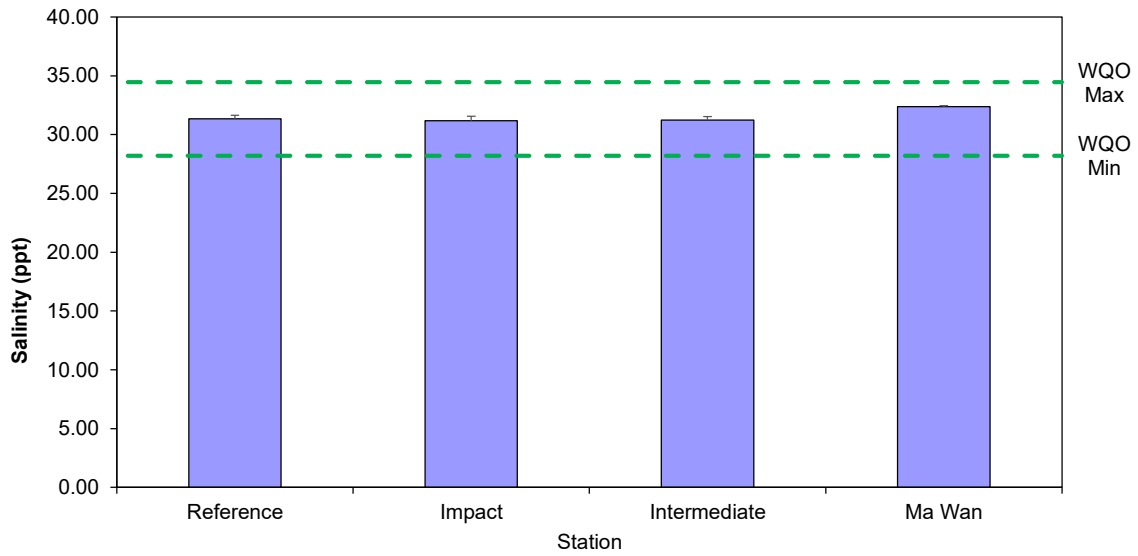
### Routine Water Quality Monitoring for ESC CMP V - December 2023



**Figure 4:** Level of Temperature (°C; mean + SD)<sup>1</sup> recorded during Routine Water Quality Monitoring for disposal operations at ESC CMP V in December 2023

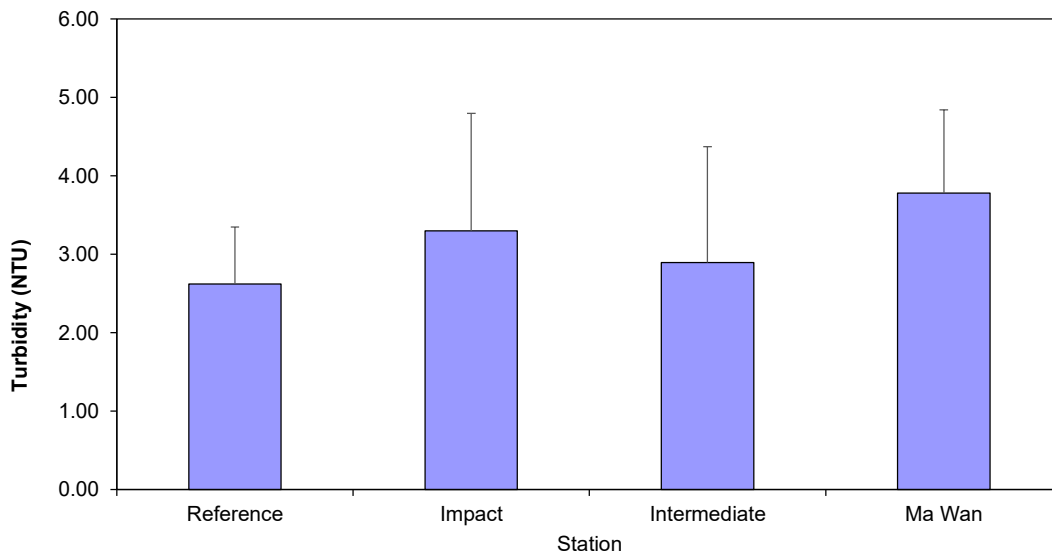
<sup>1</sup> The mean and standard deviation (SD) for in-situ data are the mean and SD for water columns within the area.

**Routine Water Quality Monitoring for ESC CMP V - December 2023**



**Figure 5:** Level of Salinity (ppt; mean + SD)<sup>1</sup> recorded during Routine Water Quality Monitoring for disposal operations at ESC CMP V in December 2023

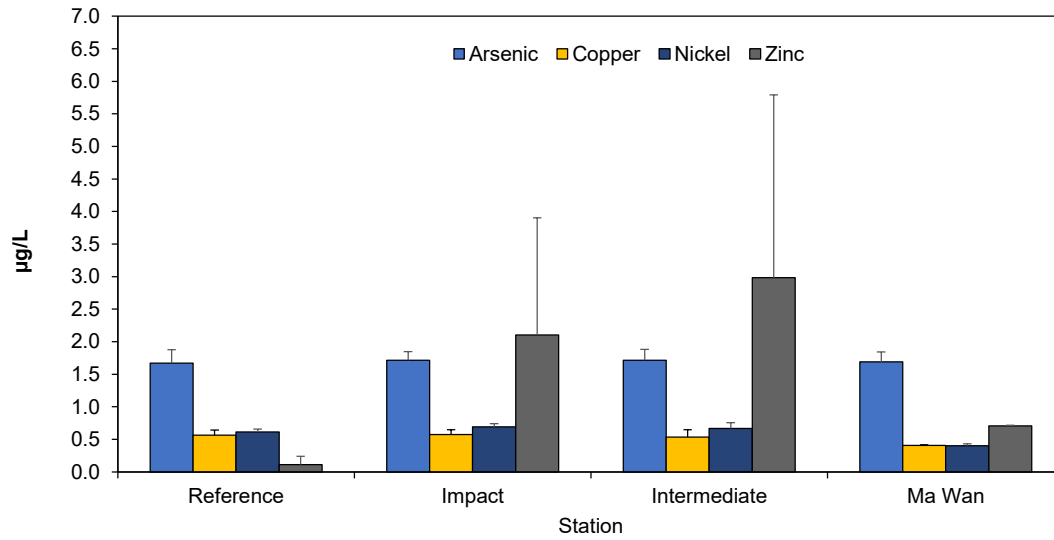
**Routine Water Quality Monitoring for ESC CMP V - December 2023**



**Figure 6:** Level of Turbidity (NTU; mean + SD)<sup>1</sup> recorded during Routine Water Quality Monitoring for disposal operations at ESC CMP V in December 2023

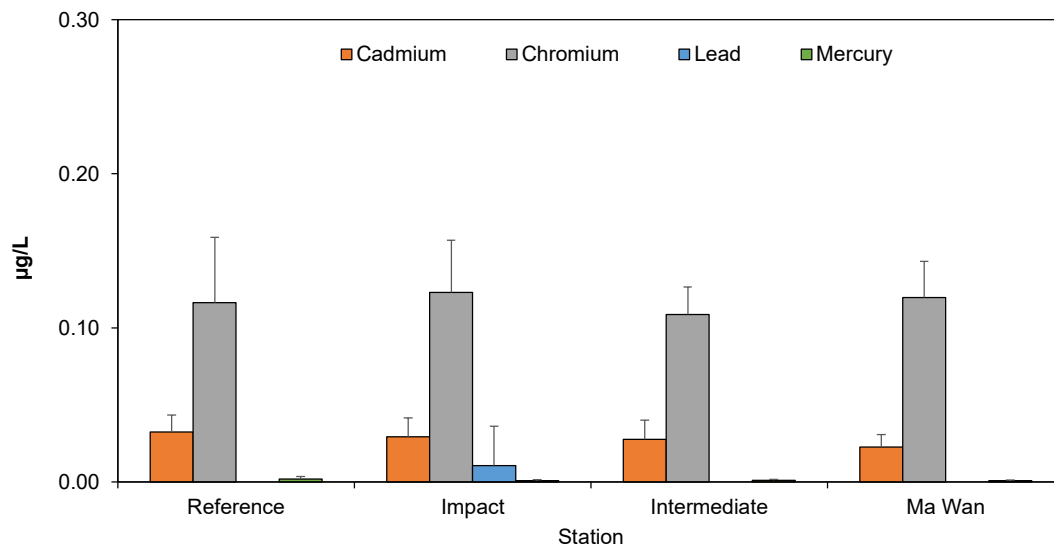
<sup>1</sup> The mean and standard deviation (SD) for in-situ data are the mean and SD for water columns within the area.

**Routine Water Quality Monitoring for ESC CMP V December 2023**



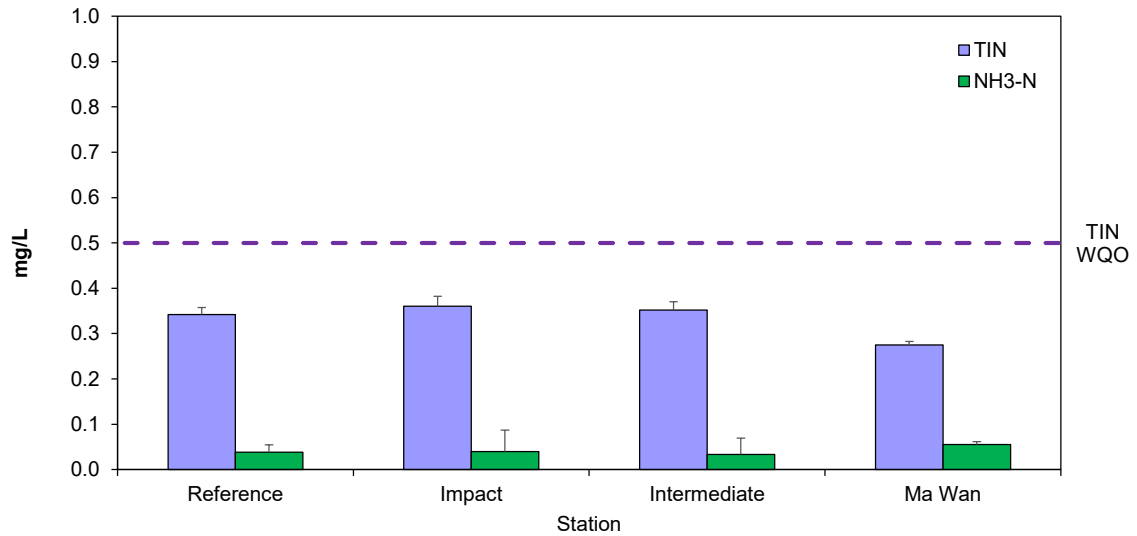
**Figure 7:** Concentration of Arsenic, Copper, Nickel, and Zinc (µg/L; mean + SD) in water samples collected from Routine Water Quality Monitoring for disposal operations at ESC CMP V in December 2023

**Routine Water Quality Monitoring for ESC CMP V December 2023**



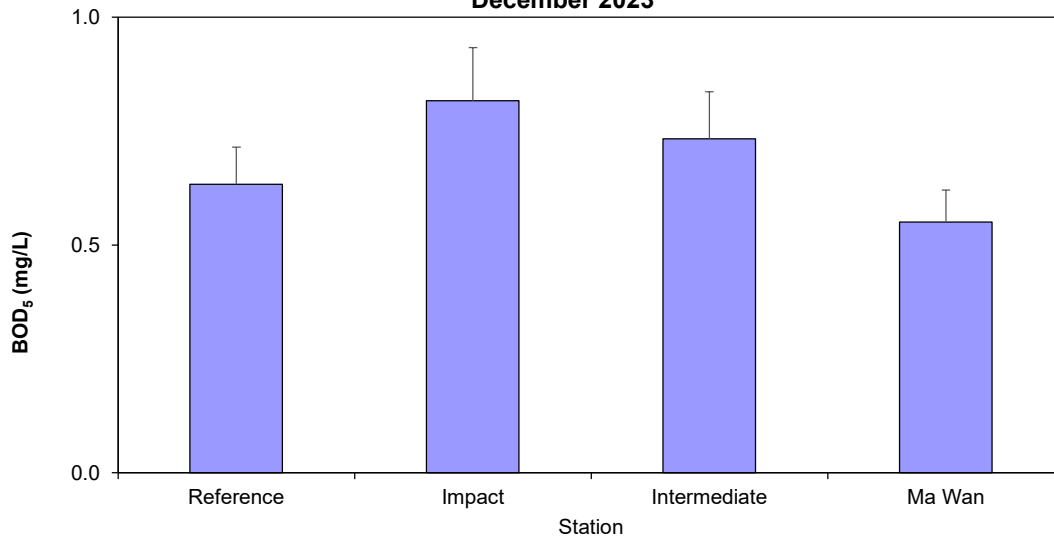
**Figure 8:** Concentration of Cadmium, Chromium, Lead, Mercury and Silver, (µg/L; mean + SD) in water samples collected from Routine Water Quality Monitoring for disposal operations at ESC CMP V in December 2023

### Routine Water Quality Monitoring for Nutrients - December 2023



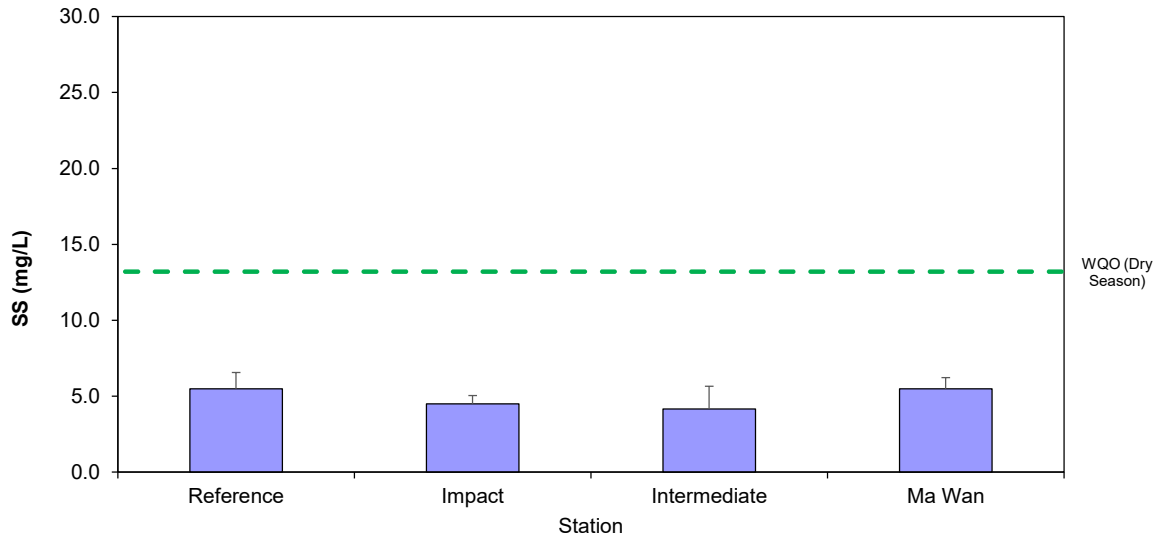
**Figure 9:** Concentration of Total Inorganic Nitrogen (TIN) and Ammonia Nitrogen (NH3-N) (mg/L; mean + SD) in water samples collected from Routine Water Quality Monitoring for disposal operations at ESC CMP V in December 2023

### Routine Water Quality Monitoring for Biochemical Oxygen Demand (BOD5) - December 2023



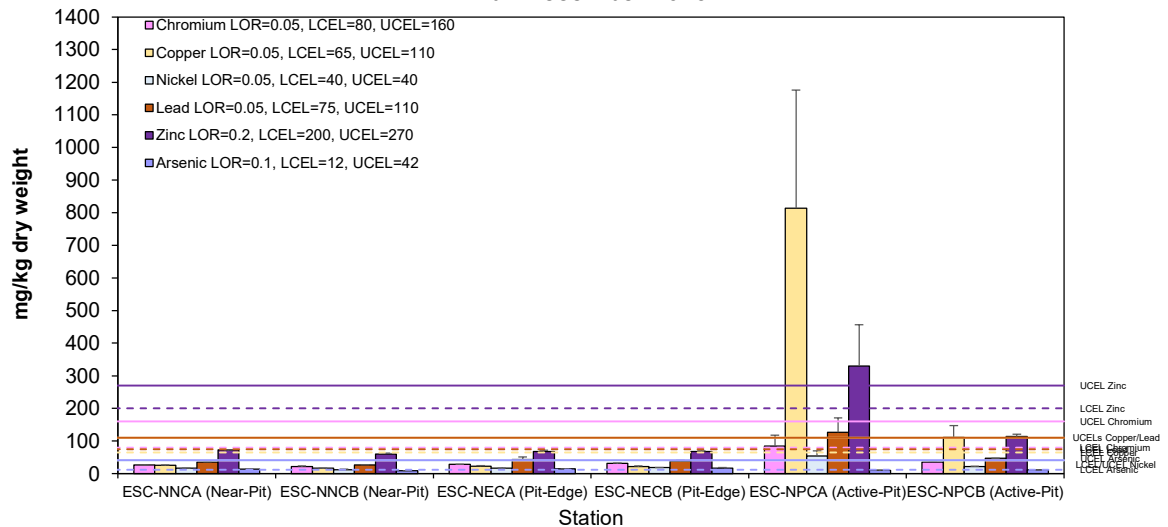
**Figure 10:** Level of Biochemical Oxygen Demand (BOD5) (mg/L; mean + SD) in water samples collected from Routine Water Quality Monitoring for disposal operations at ESC CMP V in December 2023

### Routine Water Quality Monitoring for Suspended Solids - December 2023



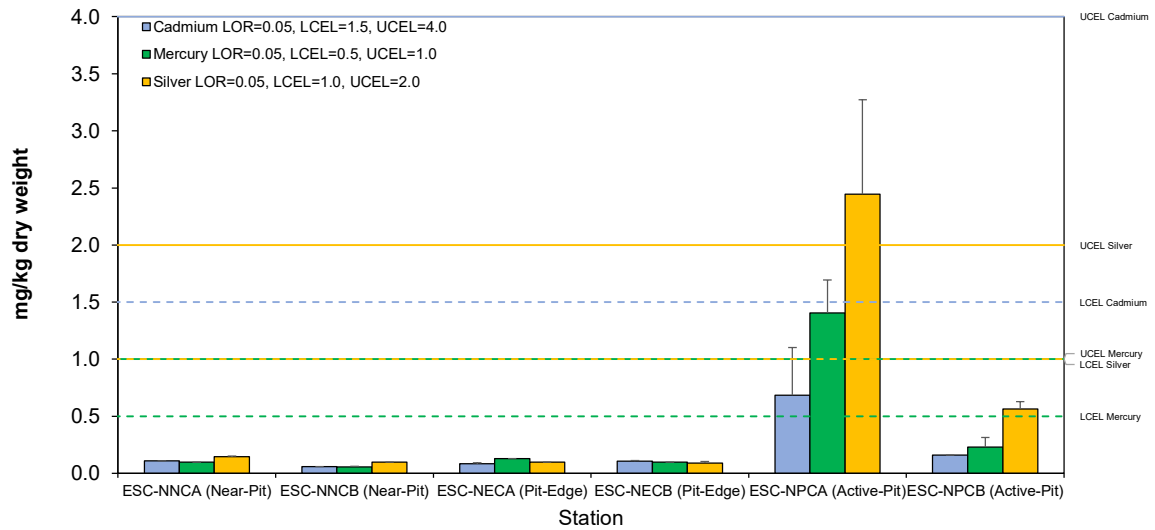
**Figure 11** Concentration of Suspended Solids (SS) (mg/L; mean + SD) in water samples collected from Routine Water Quality Monitoring for disposal operations at ESC CMP V in December 2023

### Pit Specific Sediment Chemistry for Metal and Metalloid Contaminants at ESC CMP Vb - December 2023



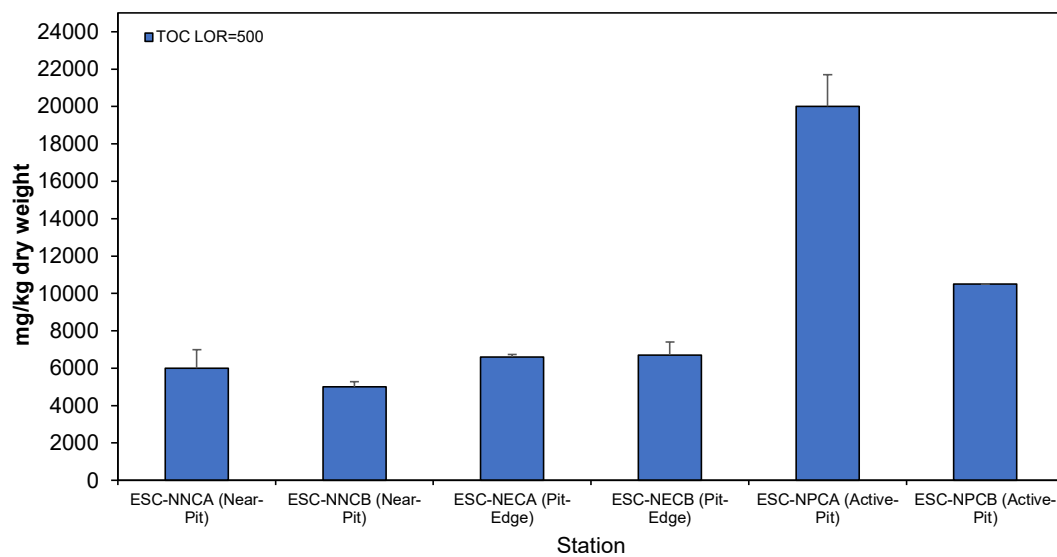
**Figure 12:** Concentration of Metals and Metalloid (Cr, Cu, Ni, Pb, Zn, As; mg/kg dry weight; mean + SD) in sediment samples collected from Pit Specific Sediment Chemistry Monitoring for ESC CMP Vb in December 2023

**Pit Specific Sediment Chemistry for Metal Contaminants at ESC CMP Vb - December 2023**



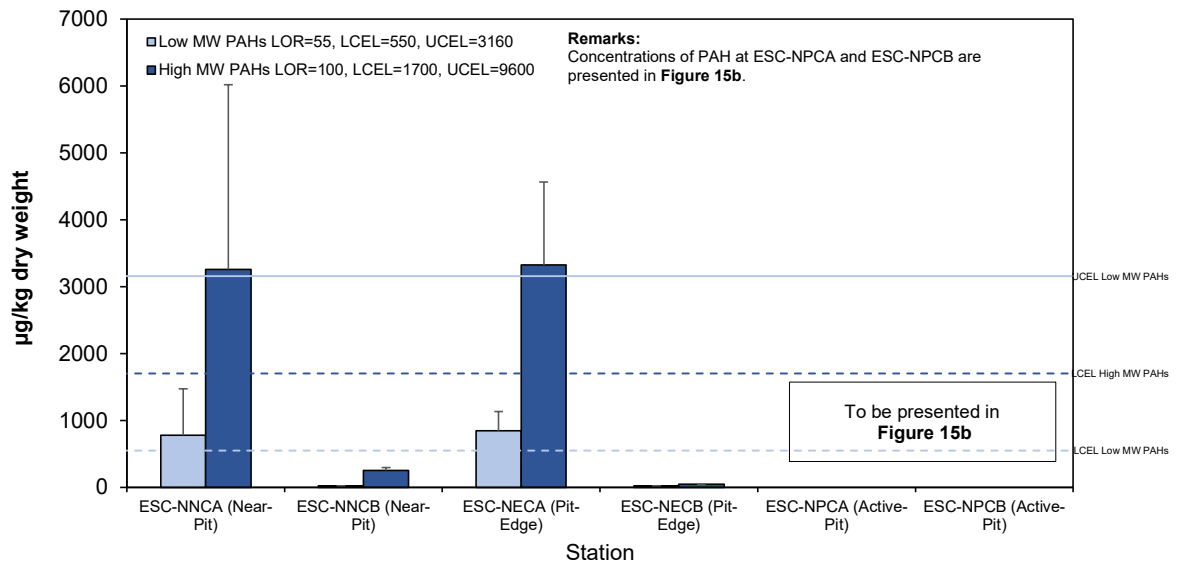
**Figure 13:** Concentration of Metals (Cd, Hg, Ag; mg/kg dry weight; mean + SD) in sediment samples collected from Pit Specific Sediment Chemistry Monitoring for ESC CMP Vb in December 2023

**Pit Specific Sediment Chemistry for Total Organic Carbon (TOC) at ESC CMP Vb - December 2023**



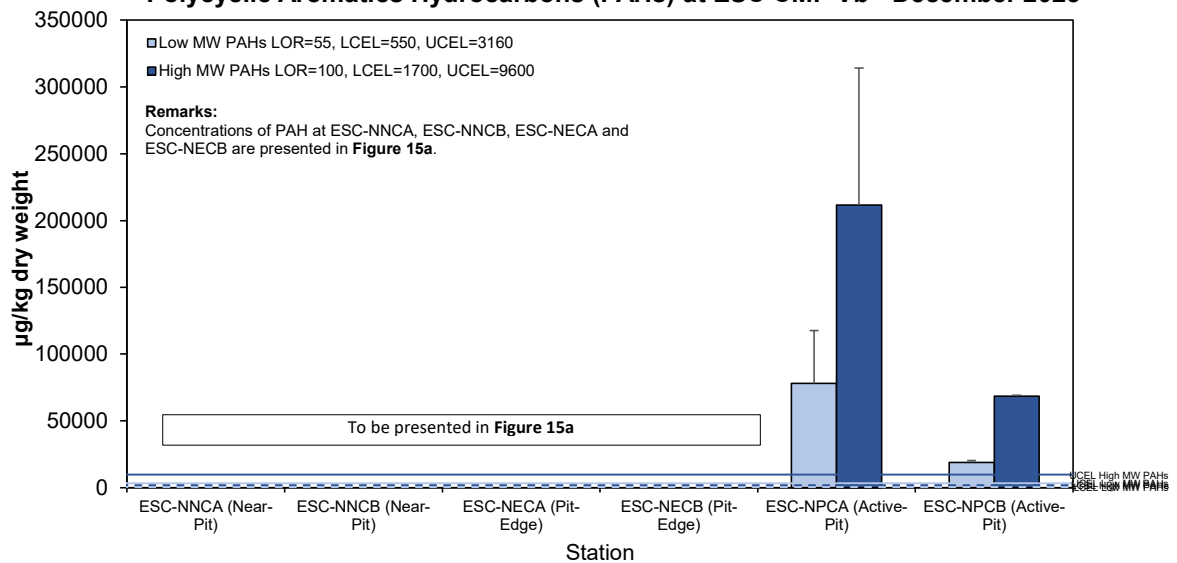
**Figure 14:** Concentration of Total Organic Carbon (TOC) (mg/kg dry weight; mean + SD) in sediment samples collected from Pit Specific Sediment Chemistry Monitoring for ESC CMP Vb in December 2023

**Pit Specific Sediment Chemistry for Low and High Molecular Weight Polycyclic Aromatics Hydrocarbons (PAHs) at ESC CMP Vb - December 2023**



**Figure 15a** Concentration of Low and High Molecular Weight Polycyclic Aromatic Hydrocarbons (µg/kg dry weight; mean + SD) in sediment samples collected from Pit Specific Sediment Chemistry Monitoring for ESC CMP Vb in December 2023

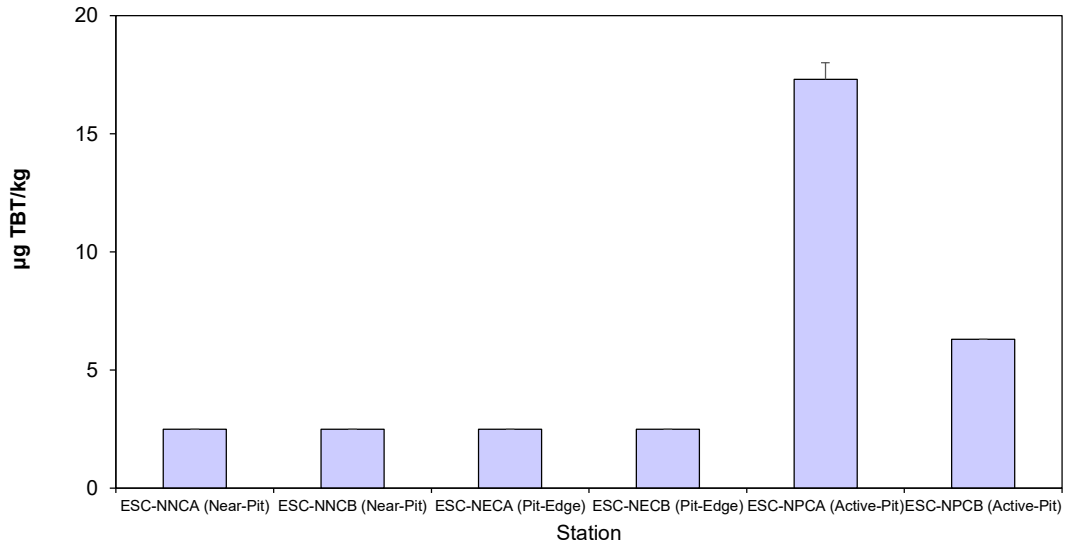
**Pit Specific Sediment Chemistry for Low and High Molecular Weight Polycyclic Aromatics Hydrocarbons (PAHs) at ESC CMP Vb - December 2023**



**Figure 15b** Concentration of Low and High Molecular Weight Polycyclic Aromatic Hydrocarbons (µg/kg dry weight; mean + SD) in sediment samples collected from Pit Specific Sediment Chemistry Monitoring for ESC CMP Vb in December 2023

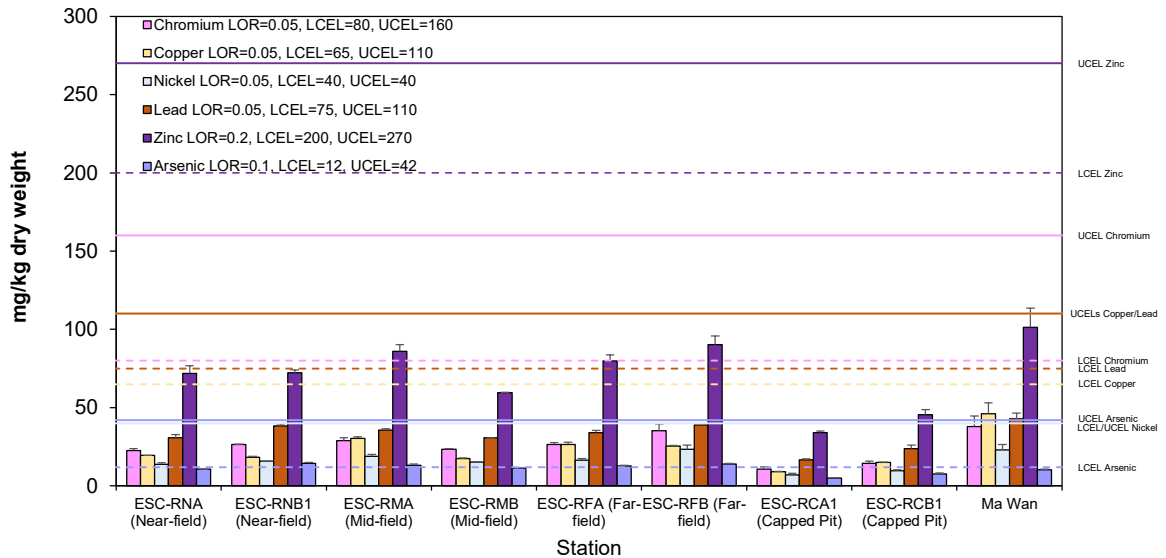


### Pit Specific Sediment Chemistry for Tributyltin (TBT) at ESC CMP Vb - December 2023



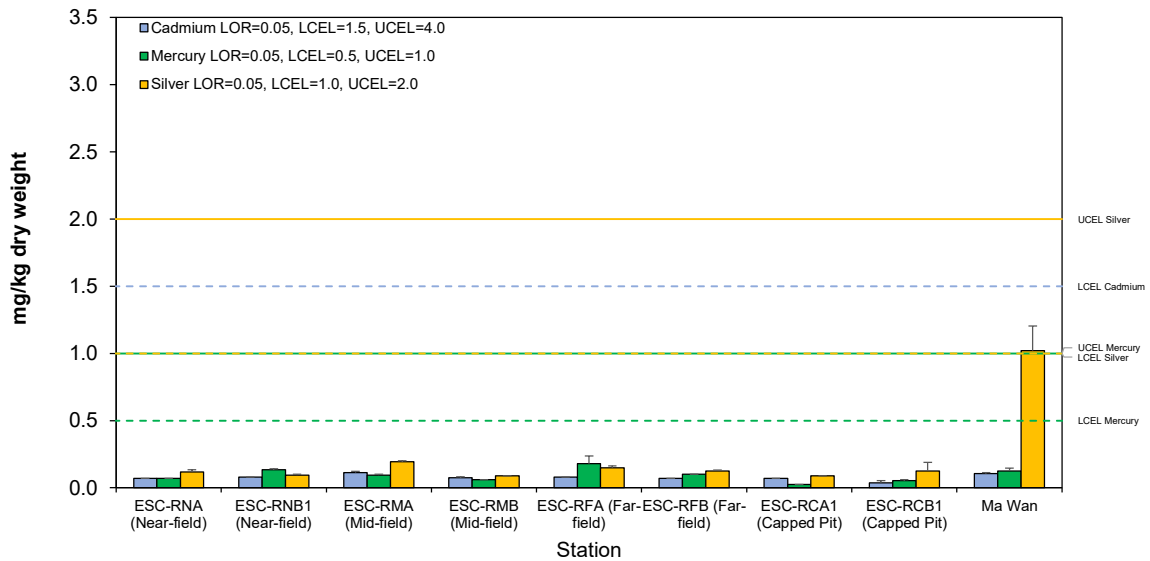
**Figure 16:** Concentration of Tributyltin (TBT) (µg TBT/kg; mean + SD) in sediment samples collected from Pit Specific Sediment Chemistry Monitoring for ESC CMP Vb in December 2023

### Cumulative Impact Sediment Chemistry for Metal and Metalloid Contaminants at ESC CMPs - December 2023



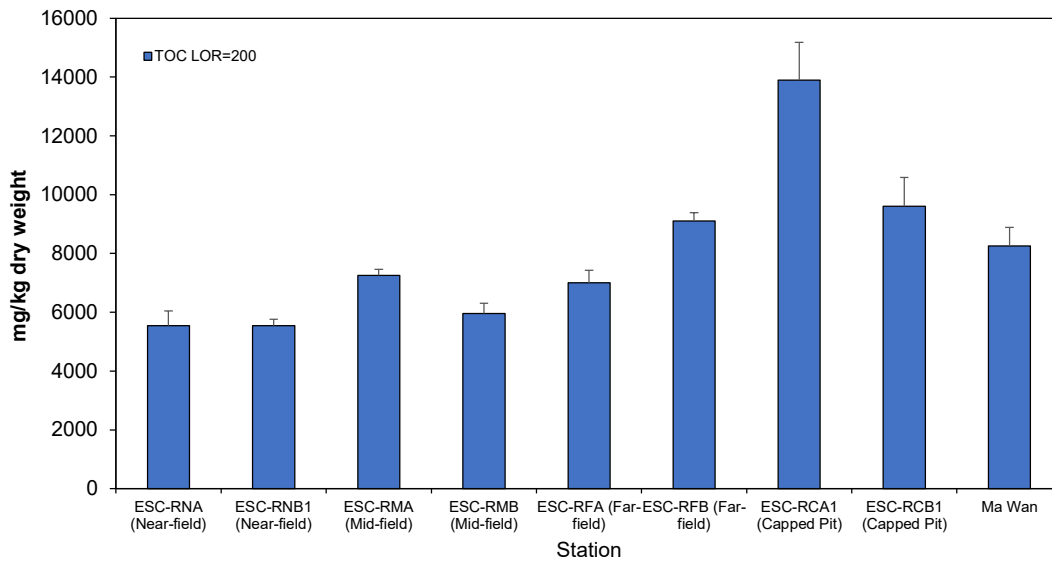
**Figure 17:** Concentration of Metals and Metalloid (Cr, Cu, Ni, Pb, Zn, As; mg/kg dry weight; mean + SD) in sediment samples collected from Cumulative Impact Sediment Chemistry Monitoring for ESC CMPs in December 2023

### Cumulative Impact Sediment Chemistry for Metal Contaminants at ESC CMPs - December 2023



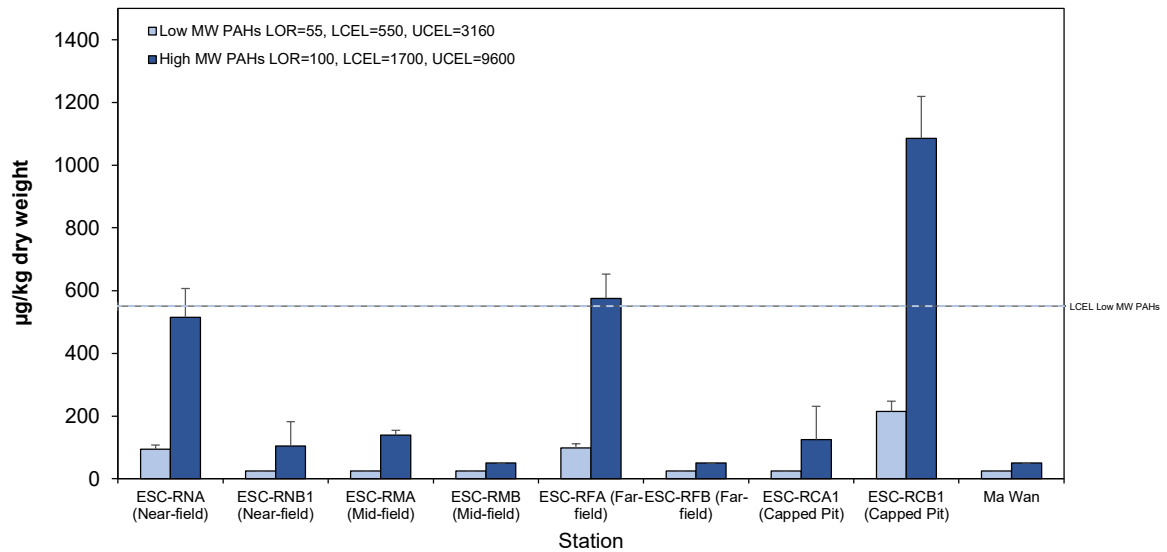
**Figure 18:** Concentration of Metals (Cd, Hg, Ag; mg/kg dry weight; mean + SD) in sediment samples collected from Cumulative Impact Sediment Chemistry Monitoring for ESC CMPs in December 2023

### Cumulative Impact Sediment Chemistry for Total Organic Carbon (TOC) at ESC CMPs - December 2023



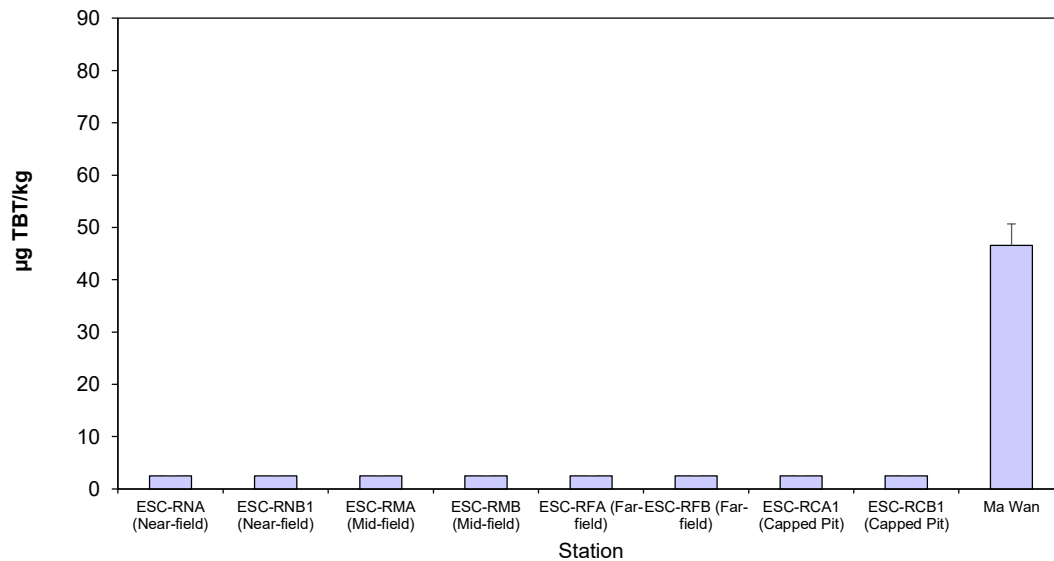
**Figure 19:** Concentration of Total Organic Carbon (TOC) (mg/kg dry weight; mean + SD) in sediment samples collected from Cumulative Impact Sediment Chemistry Monitoring for ESC CMPs in December 2023

### Cumulative Impact Sediment Chemistry for Low and High Molecular Weight Polycyclic Aromatics Hydrocarbons (PAHs) at ESC CMPs - December 2023



**Figure 20:** Concentration of Low and High Molecular Weight Polycyclic Aromatics (mg/kg dry weight; mean + SD) in sediment samples collected from Cumulative Impact Sediment Chemistry Monitoring for ESC CMPs in December 2023

### Cumulative Impact Sediment Chemistry for Tributyltin (TBTs) at ESC CMPs - December 2023



**Figure 21:** Concentration of Tributyltin (TBT) (µg/kg dry weight; mean + SD) in sediment samples collected from Cumulative Impact Sediment Chemistry Monitoring for ESC CMPs in December 2023