

Appendix C. Graphical Presentations

Routine Water Quality Monitoring for ESC CMP V - May 2024

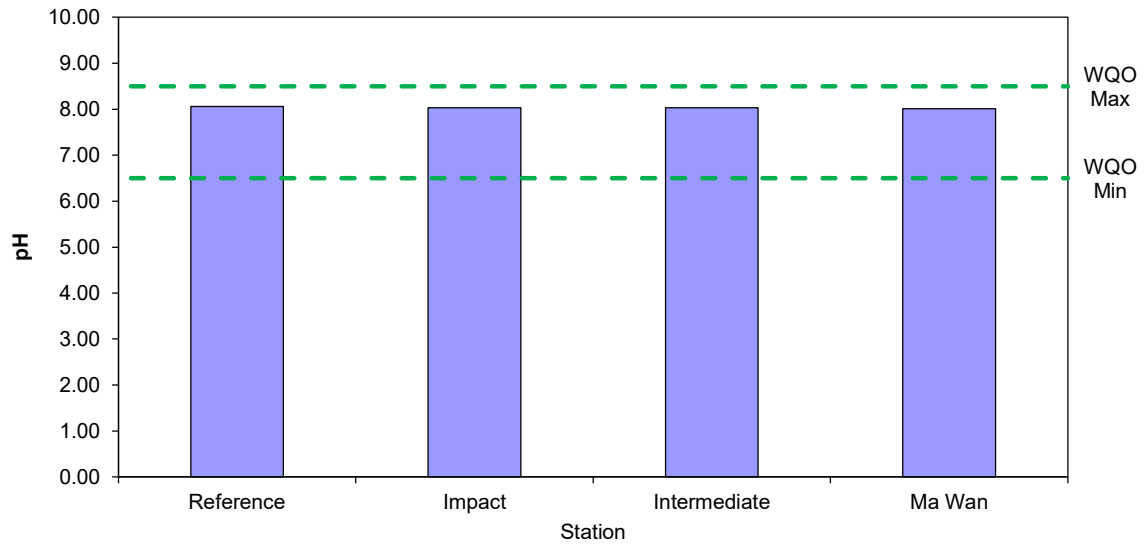


Figure 1: Level of pH recorded during Routine Water Quality Monitoring for disposal operations at ESC CMP V in May 2024

Routine Water Quality Monitoring for ESC CMP V - May 2024

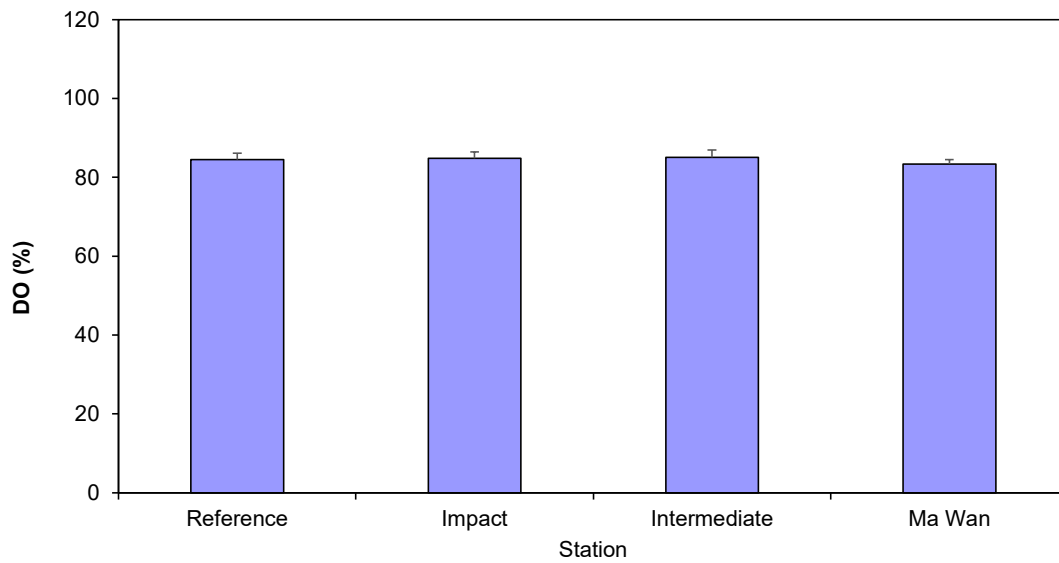


Figure 2: Level of Dissolved Oxygen (DO) (% saturation; mean + SD¹) recorded during Routine Water Quality Monitoring for disposal operations at ESC CMP V in May 2024

¹ 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 - May 2024

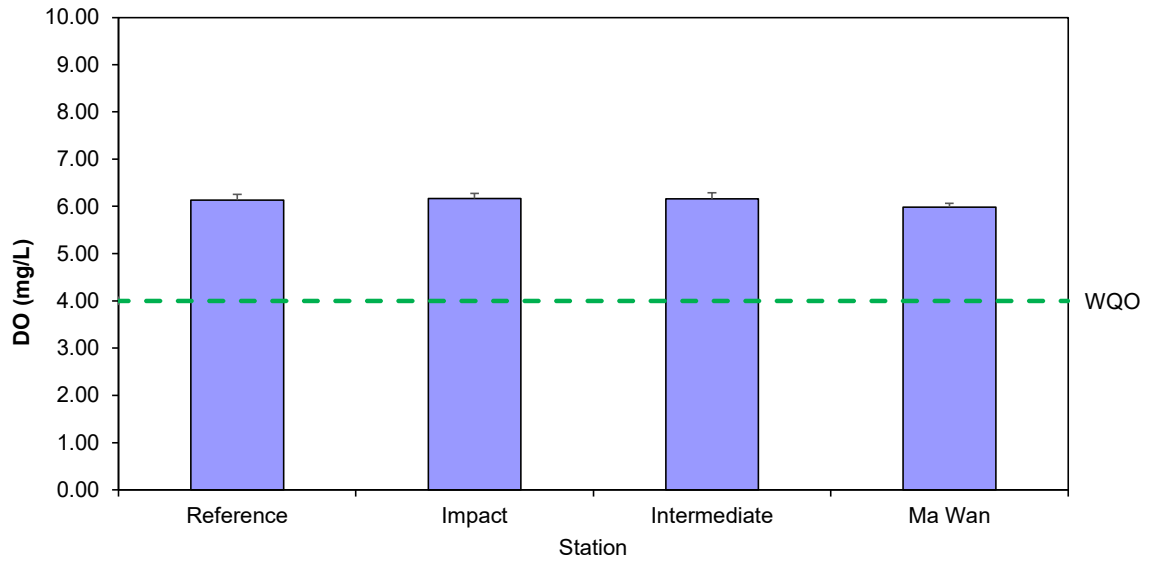


Figure 3: Concentration of Dissolved Oxygen (DO) (mg/L; mean + SD¹) recorded during Routine Water Quality Monitoring for disposal operations at ESC CMP V in May 2024

Routine Water Quality Monitoring for ESC CMP V - May 2024

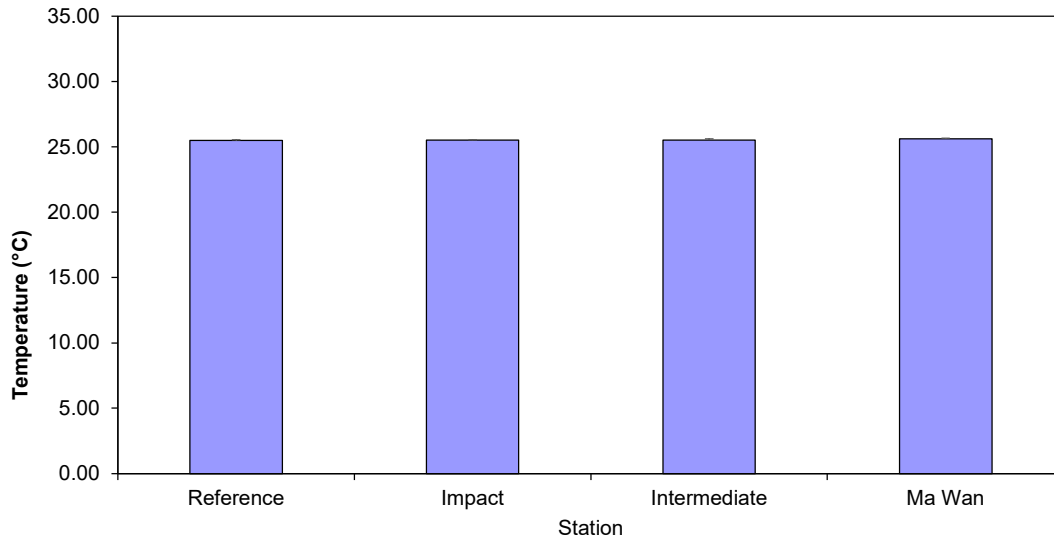


Figure 4: Level of Temperature (°C; mean + SD¹) recorded during Routine Water Quality Monitoring for disposal operations at ESC CMP V in May 2024

¹ 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 - May 2024

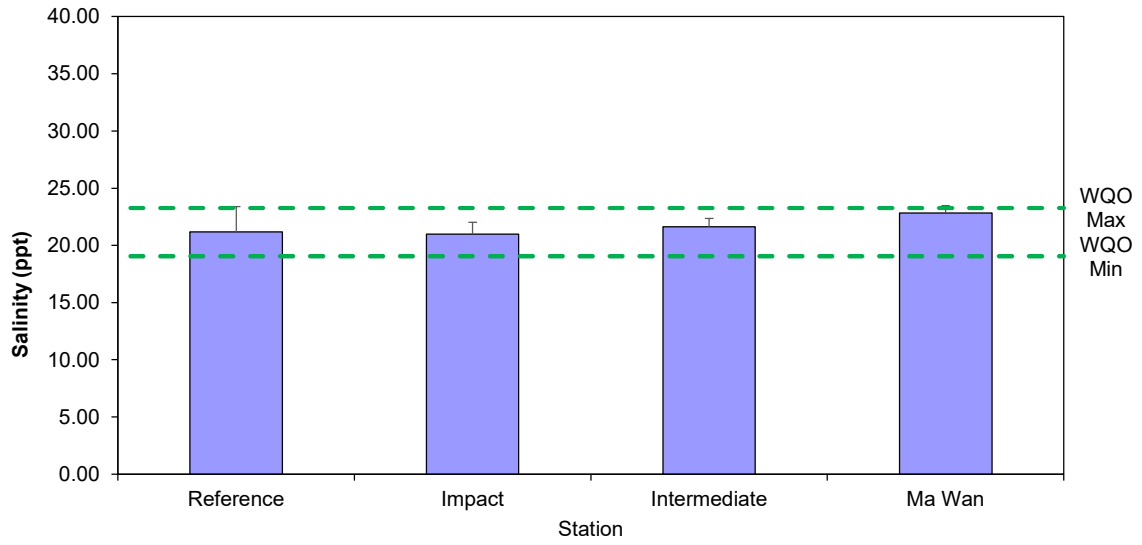


Figure 5: Level of Salinity (ppt; mean + SD¹) recorded during Routine Water Quality Monitoring for disposal operations at ESC CMP V in May 2024

Routine Water Quality Monitoring for ESC CMP V - May 2024

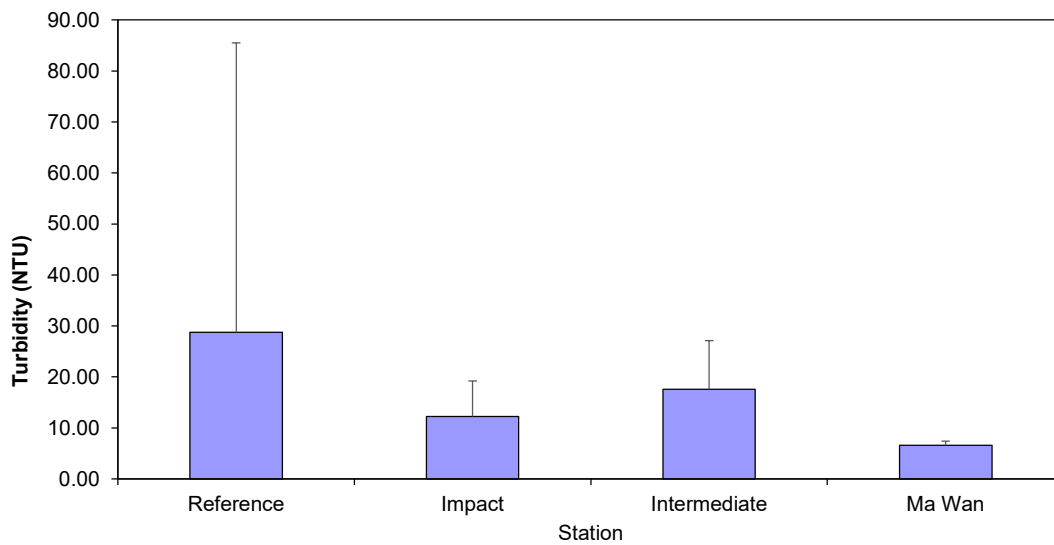


Figure 6: Level of Turbidity (NTU; mean + SD¹) recorded during Routine Water Quality Monitoring for disposal operations at ESC CMP V in May 2024

¹ 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 May 2024

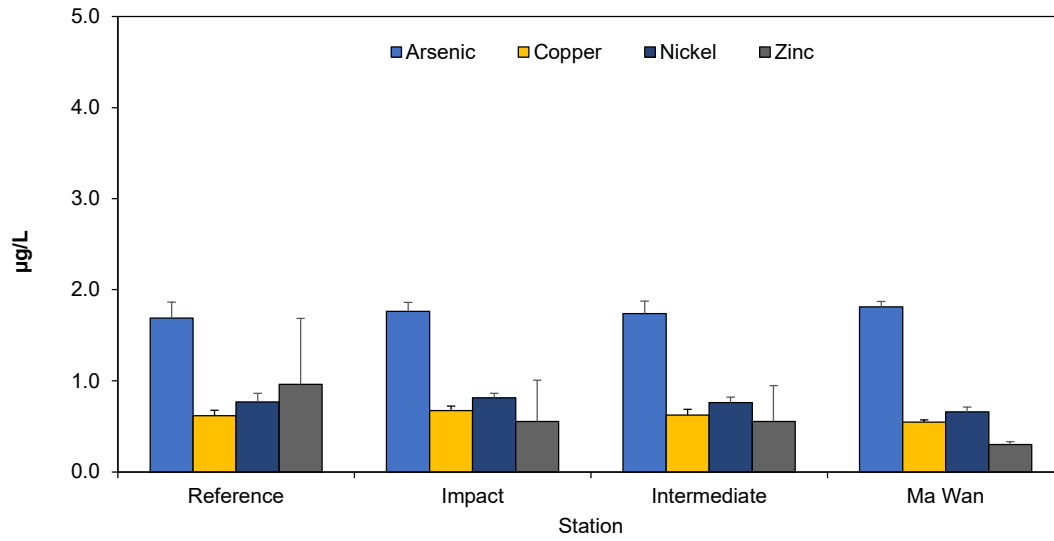


Figure 7: Concentration of Arsenic, Copper, Nickel, Zinc (µg/L; mean + SD) in water samples collected from Routine Water Quality Monitoring for disposal operations at ESC CMP V in May 2024

Routine Water Quality Monitoring for ESC CMP V May 2024

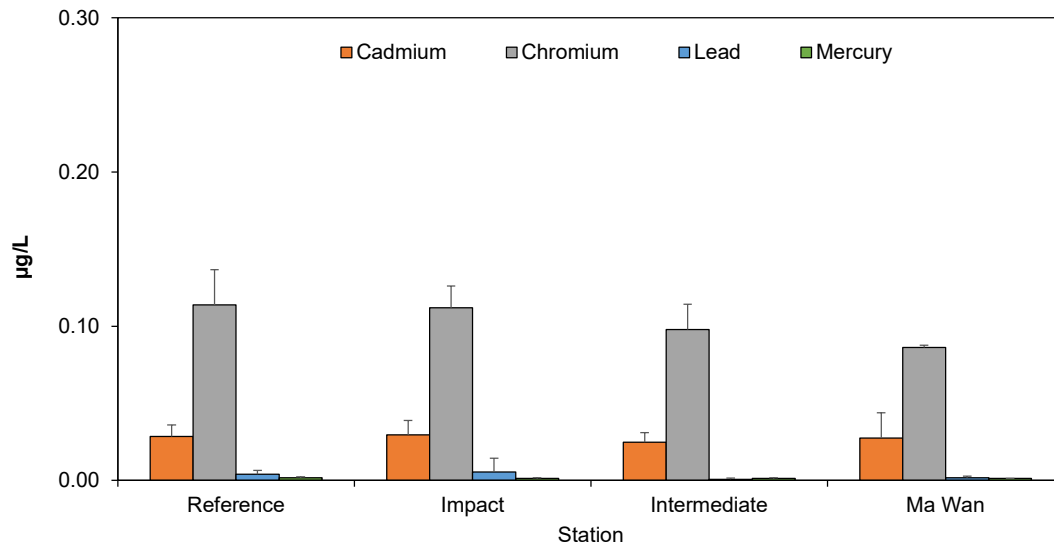


Figure 8: Concentration of Cadmium, Chromium, Lead and Mercury (µg/L; mean + SD) in water samples collected from Routine Water Quality Monitoring for disposal operations at ESC CMP V in May 2024

Routine Water Quality Monitoring for Nutrients - May 2024

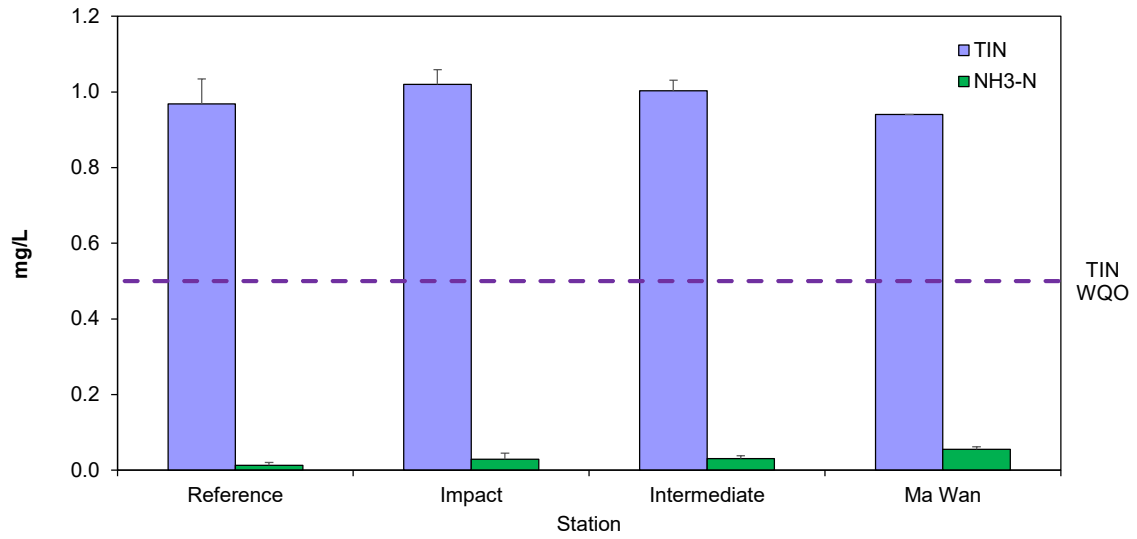


Figure 9: Concentration of Total Inorganic Nitrogen (TIN) and Ammonia Nitrogen (NH3-N) (mg/L; mean + SD) in water samples collected from Routine Water Quality Monitoring for disposal operations at ESC CMP V in May 2024

Routine Water Quality Monitoring for Biochemical Oxygen Demand (BOD5) - May 2024

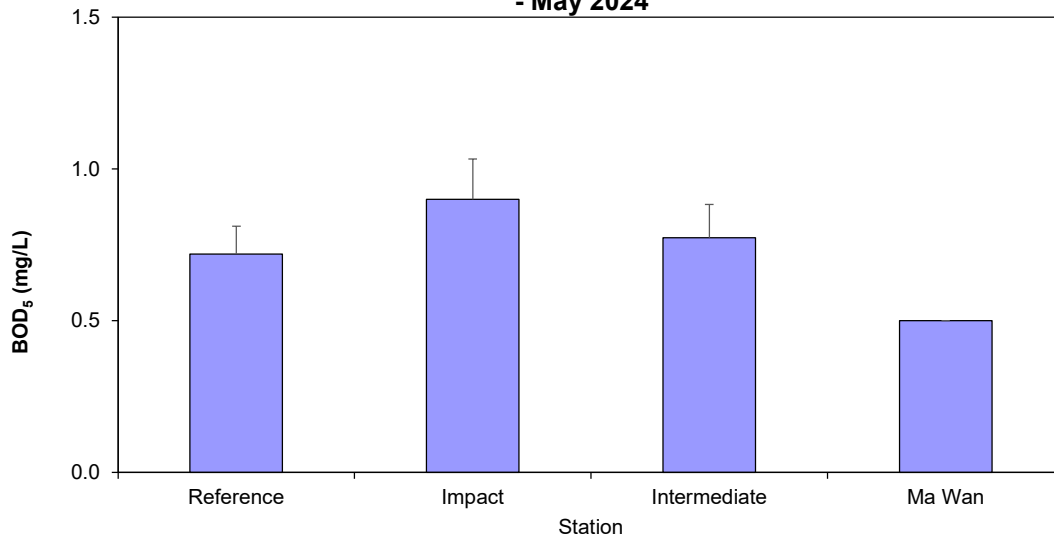


Figure 10: Level of Biochemical Oxygen Demand (BOD5) (mg/L; mean + SD) in water samples collected from Routine Water Quality Monitoring for disposal operations at ESC CMP V in May 2024

Routine Water Quality Monitoring for Suspended Solids - May 2024

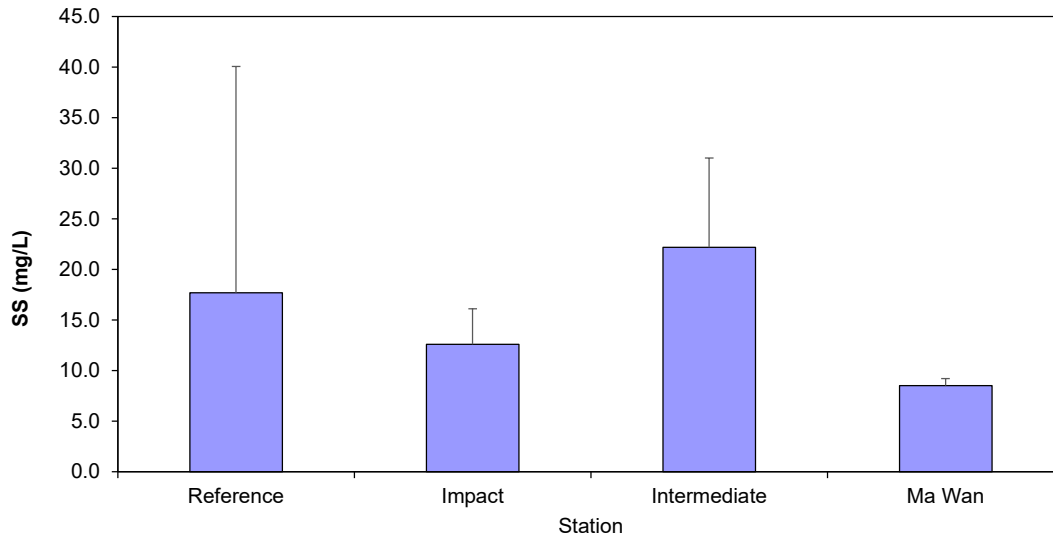


Figure 11 Concentration of Suspended Solids (SS) (mg/L; mean + SD) in water samples collected from Routine Water Quality Monitoring for disposal operations at ESC CMP V in May 2024

Pit Specific Sediment Chemistry for Metal and Metalloid Contaminants at ESC CMP Vb - May 2024

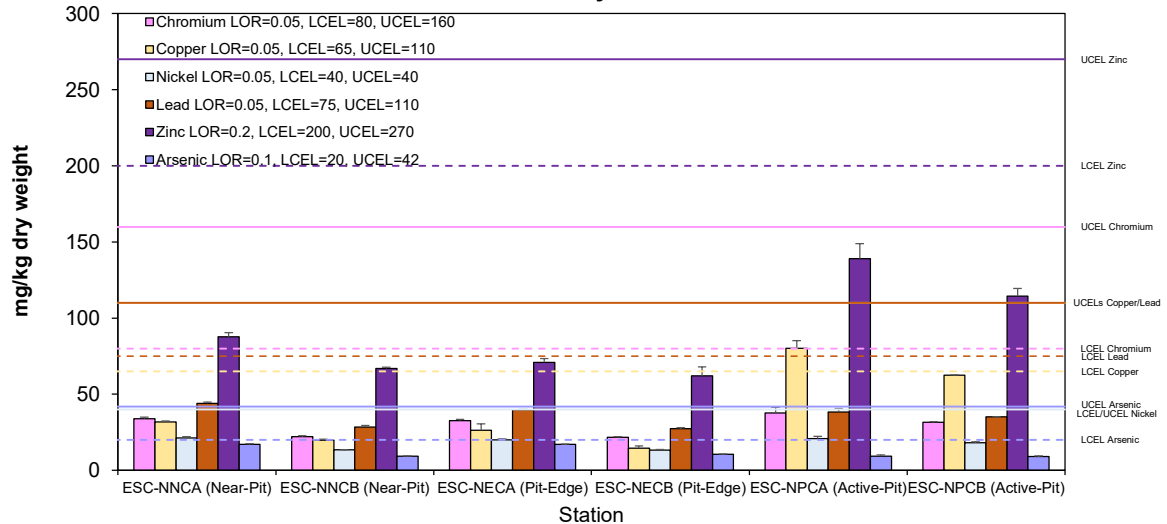


Figure 12: Concentration of Metals and Metalloid²(Cr, Cu, Ni, Pb, Zn, As; mg/kg dry weight; mean + SD) in sediment samples collected from Pit Specific Sediment Chemistry Monitoring for ESC CMP Vb in May 2024

² The LCEL and UCEL of Cadmium, Mercury and Arsenic have been updated according to the standard promulgated starting from 19 January 2024. https://www.cedd.gov.hk/filemanager/eng/content_80/PAH_2022_Chapter_4_Rev_06_240321_Clean.pdf

Pit Specific Sediment Chemistry for Metal Contaminants at ESC CMP Vb - May 2024

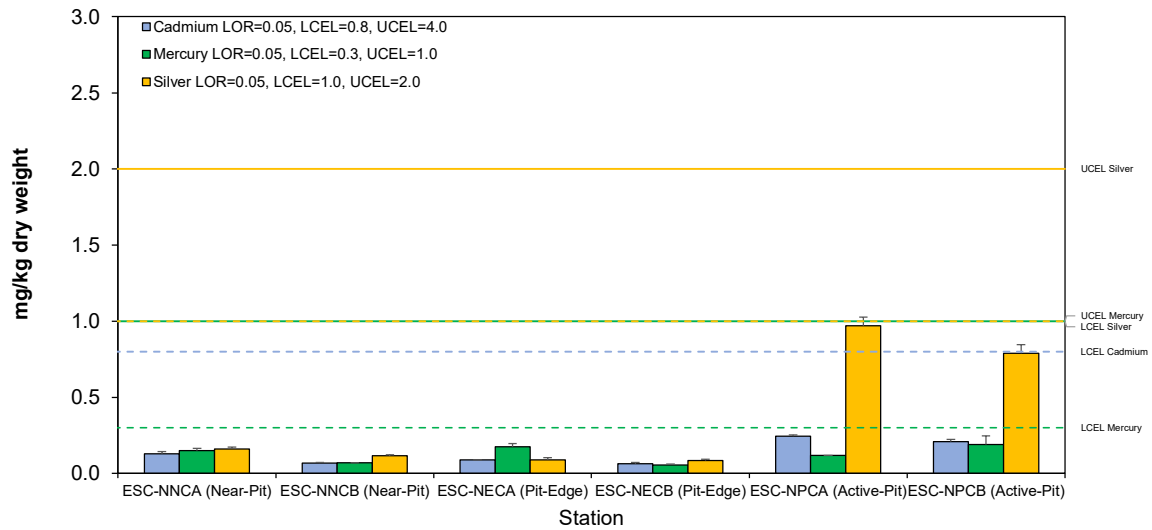


Figure 13: Concentration of Metals² (Cd, Hg, Ag; mg/kg dry weight; mean + SD) in sediment samples collected from Pit Specific Sediment Chemistry Monitoring for ESC CMP Vb in May 2024

Pit Specific Sediment Chemistry for Total Organic Carbon (TOC) at ESC CMP Vb - May 2024

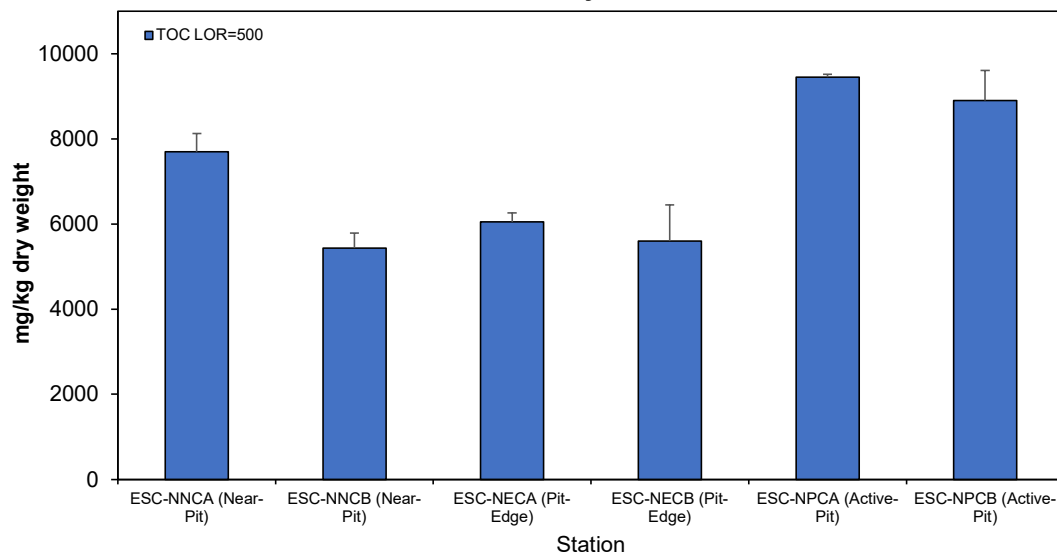


Figure 14: Concentration of Total Organic Carbon (TOC) (mg/kg dry weight; mean + SD) in sediment samples collected from Pit Specific Sediment Chemistry Monitoring for ESC CMP Vb in May 2024

² The LCEL and UCEL of Cadmium, Mercury and Arsenic have been updated according to the standard promulgated starting from 19 January 2024. https://www.cedd.gov.hk/filemanager/eng/content_80/PAH_2022_Chapter_4_Rev_06_240321_Clean.pdf

Pit Specific Sediment Chemistry for Low and High Molecular Weight Polycyclic Aromatics Hydrocarbons (PAHs) at ESC CMP Vb - May 2024

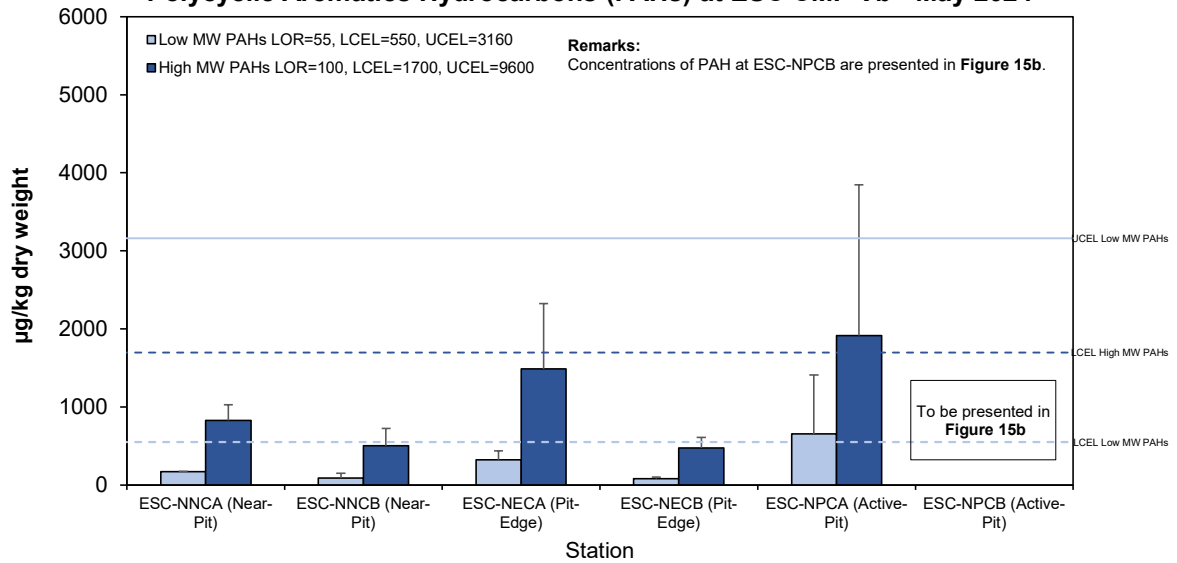


Figure 15a Concentration of Low and High Molecular Weight Polycyclic Aromatic Hydrocarbons (µg/kg dry weight; mean + SD) in sediment samples collected from Pit Specific Sediment Chemistry Monitoring for ESC CMP Vb in May 2024

Pit Specific Sediment Chemistry for Low and High Molecular Weight Polycyclic Aromatics Hydrocarbons (PAHs) at ESC CMP Vb - May 2024

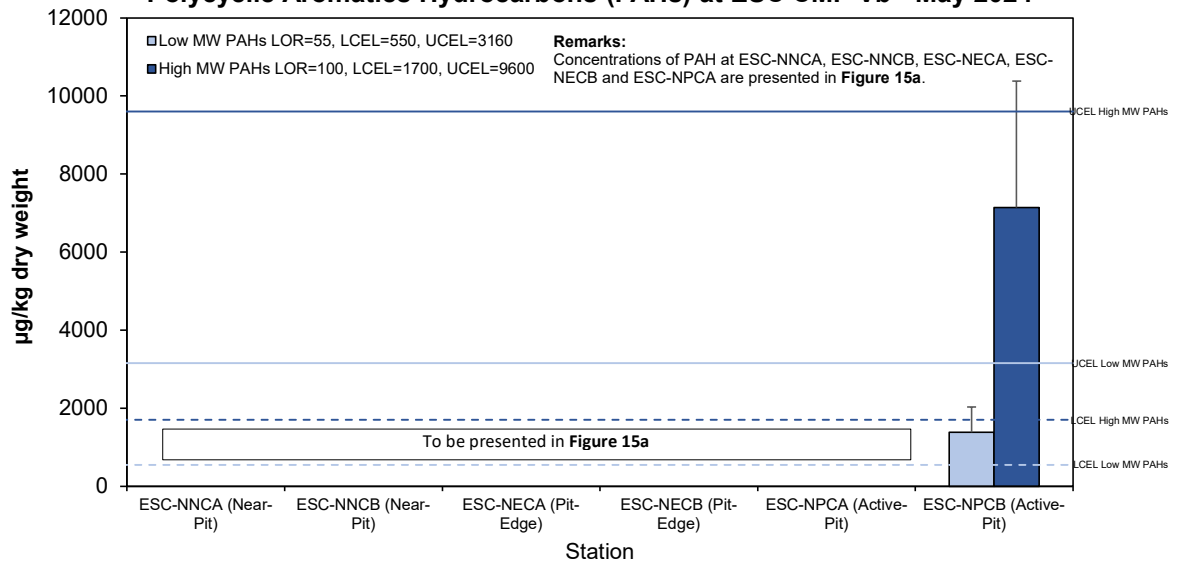


Figure 15b Concentration of Low and High Molecular Weight Polycyclic Aromatic Hydrocarbons (µg/kg dry weight; mean + SD) in sediment samples collected from Pit Specific Sediment Chemistry Monitoring for ESC CMP Vb in May 2024

Pit Specific Sediment Chemistry for Tributyltin (TBT) at ESC CMP Vb - May 2024

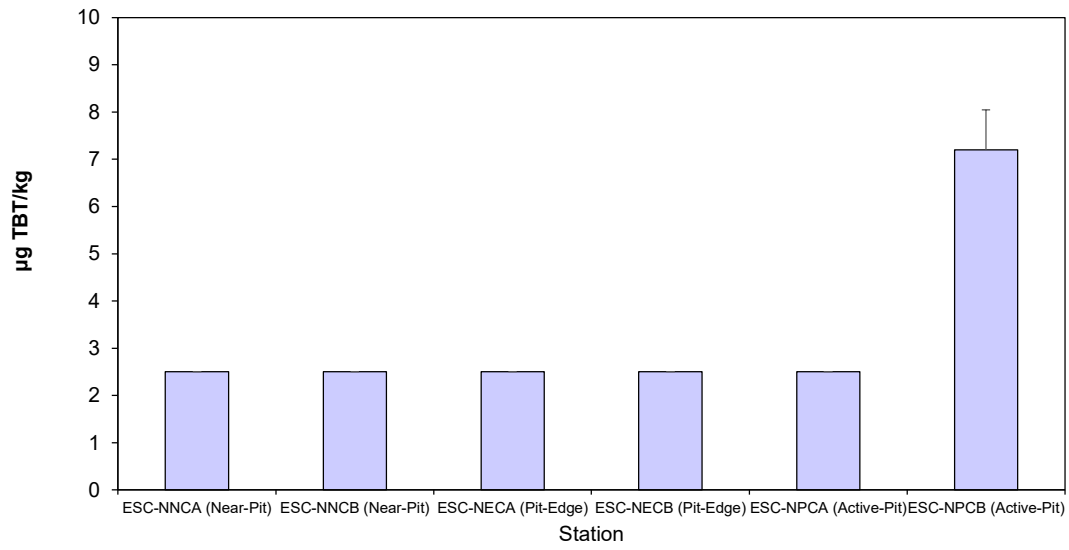


Figure 16: Concentration of Tributyltin (TBT) ($\mu\text{g TBT/kg}$; mean + SD) in sediment samples collected from Pit Specific Sediment Chemistry Monitoring for ESC CMP Vb in May 2024