Appendix C. Graphical Presentations

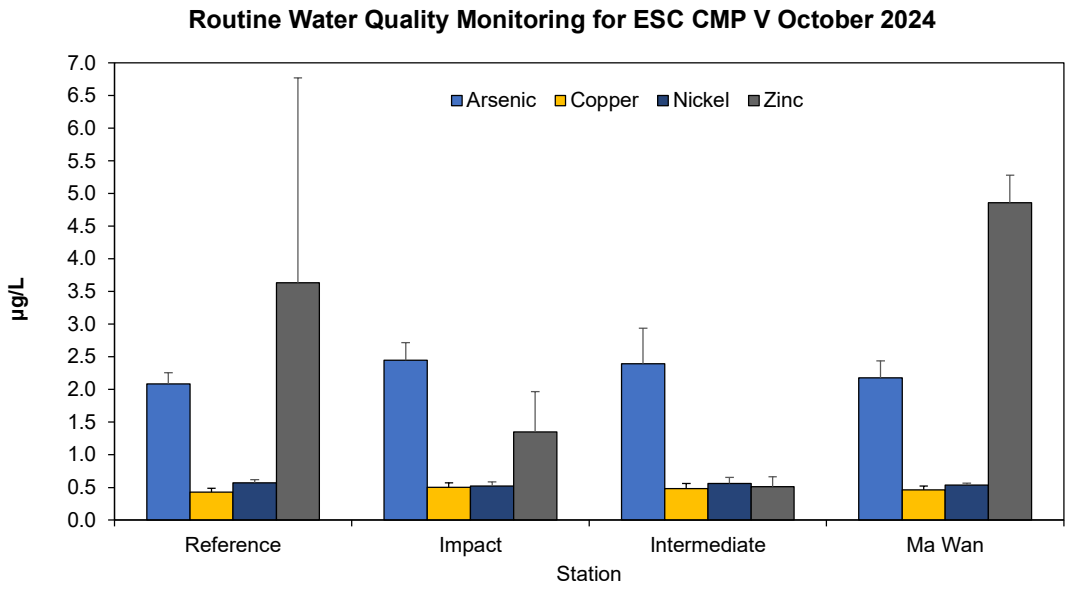

Figure 1: Concentration of Arsenic, Copper, Nickel, and Zinc (µg/L; mean + SD) in water samples collected from Routine Water Quality Monitoring for disposal operations at ESC CMP V in October 2024

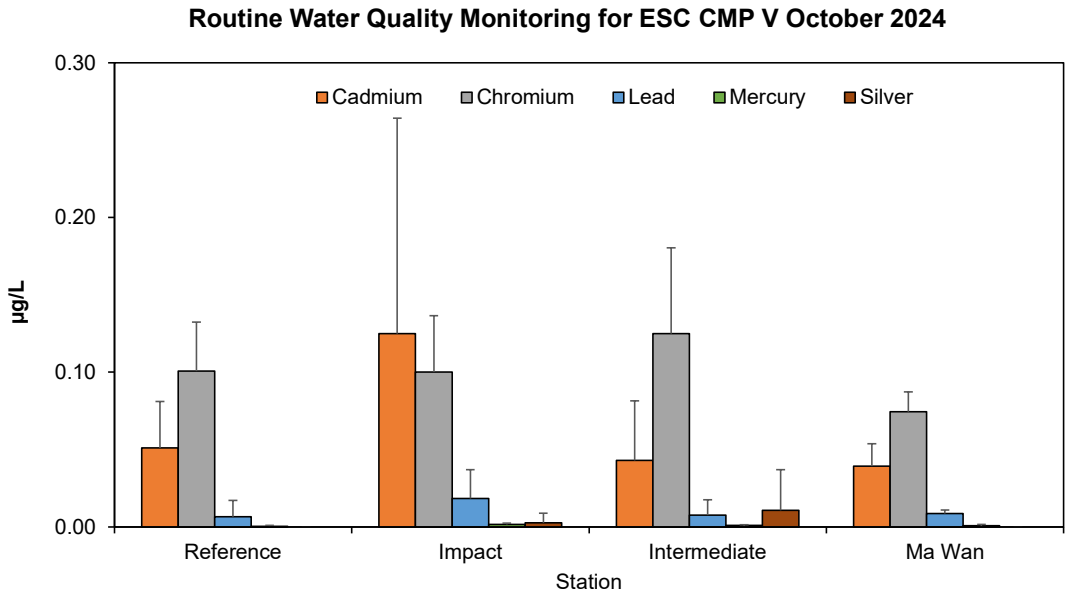

Figure 2: Concentration of Cadmium, Chromium, Lead, Mercury and Silver, (µg/L; mean + SD) in water samples collected from Routine Water Quality Monitoring for disposal operations at ESC CMP V in October 2024

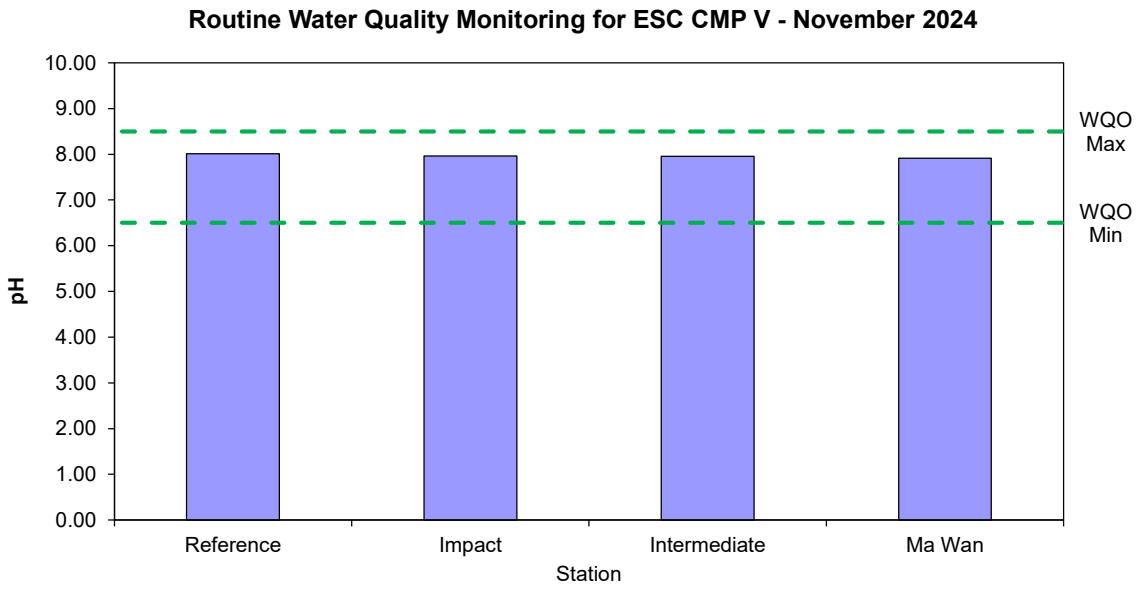

Figure 3: Level of pH recorded during Routine Water Quality Monitoring for disposal operations at ESC CMP V in November 2024

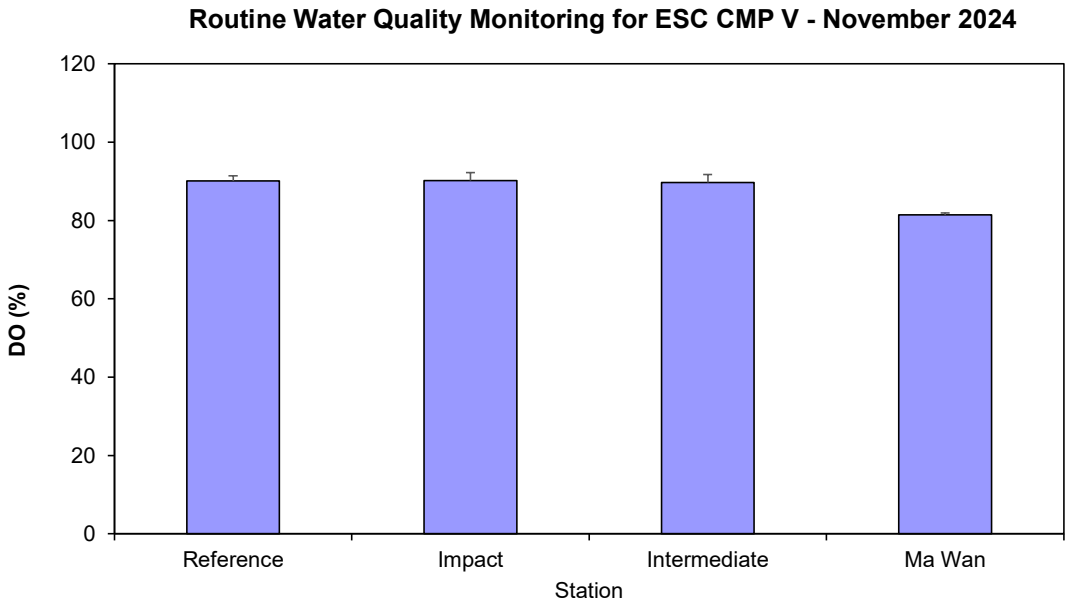

Figure 4: Level of Dissolved Oxygen (DO) (% saturation; mean + SD[1]) recorded during Routine Water Quality Monitoring for disposal operations at ESC CMP V in November 2024

[1] The mean and standard deviation (SD) for in-situ data are the mean and SD for water columns within the area.

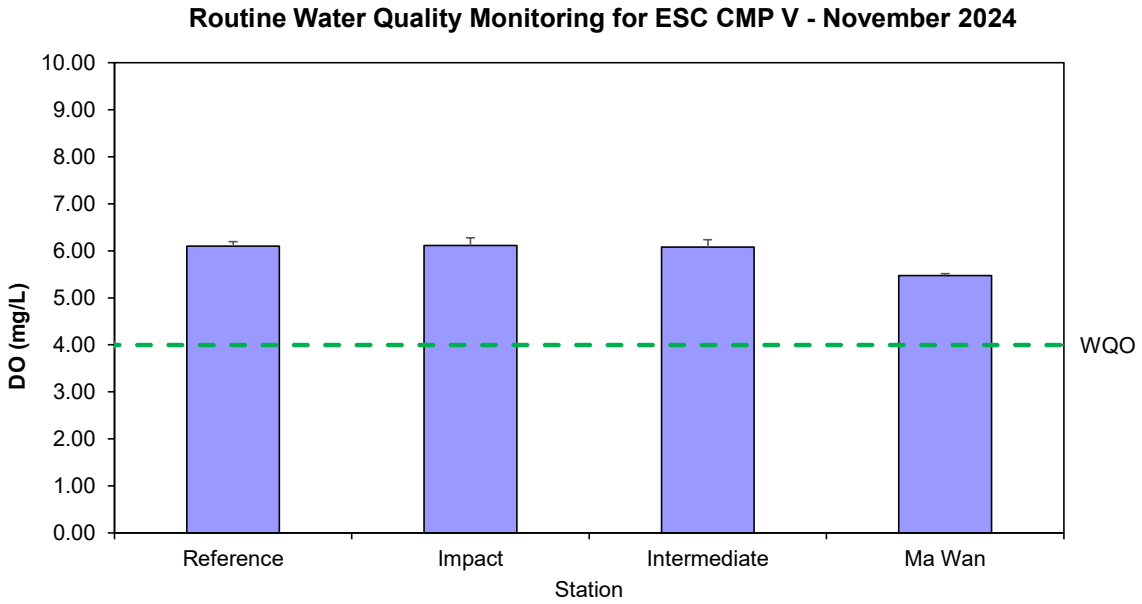

Figure 5: Concentration of Dissolved Oxygen (DO) (mg/L; mean + SD[1]) recorded during Routine Water Quality Monitoring for disposal operations at ESC CMP V in November 2024

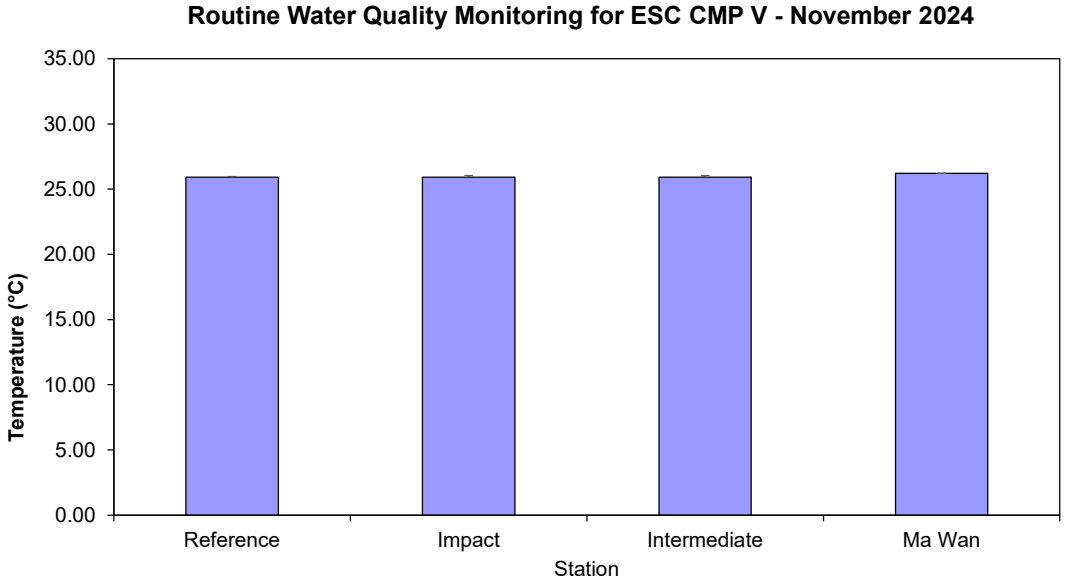

Figure 6: Level of Temperature (°C; mean + SD[1]) recorded during Routine Water Quality Monitoring for disposal operations at ESC CMP V in November 2024

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

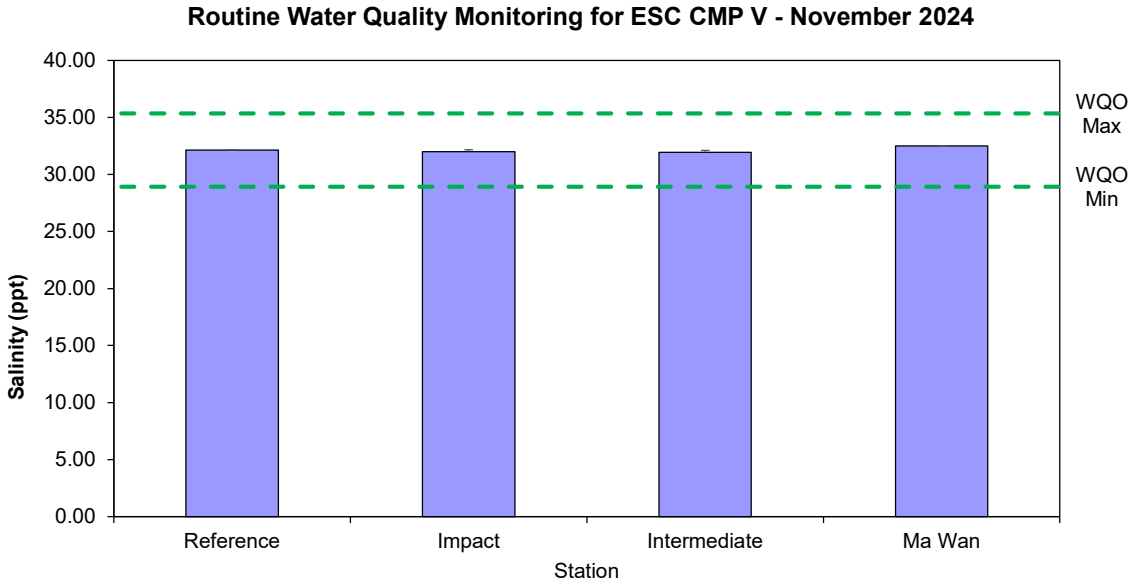

Figure 7: Level of Salinity (ppt; mean + SD[1]) recorded during Routine Water Quality Monitoring for disposal operations at ESC CMP V in November 2024

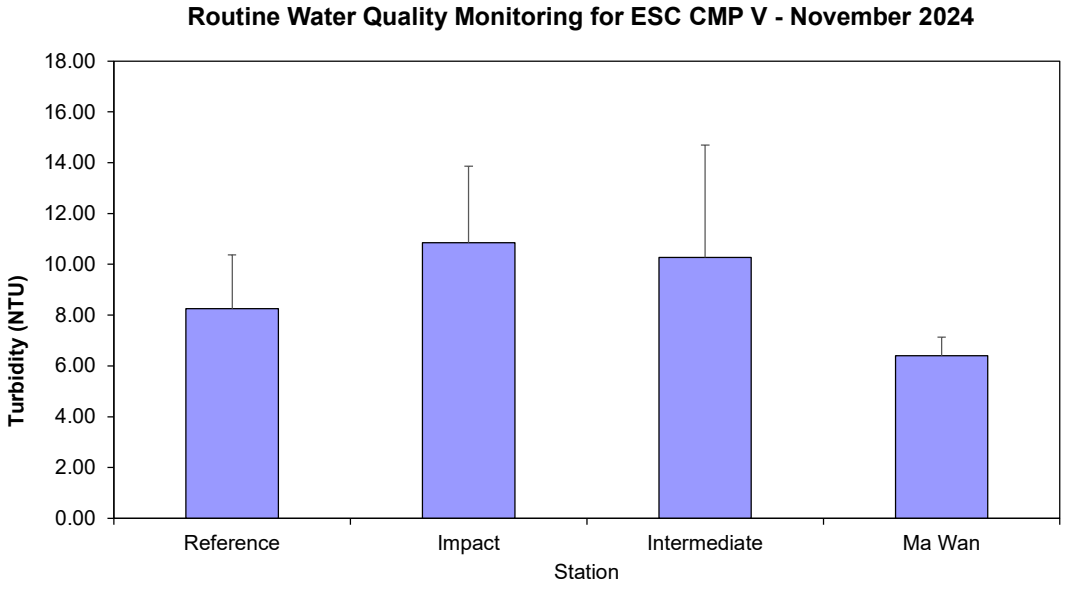

Figure 8: Level of Turbidity (NTU; mean + SD[1]) recorded during Routine Water Quality Monitoring for disposal operations at ESC CMP V in November 2024

[1] The mean and standard deviation (SD) for in-situ data are the mean and SD for water columns within the area.

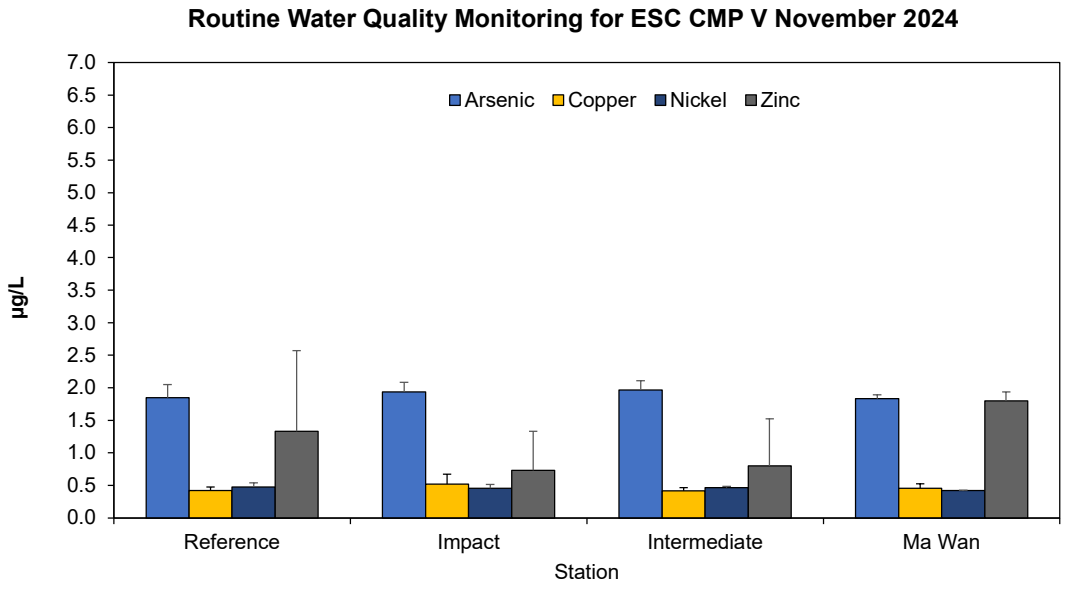

Figure 9: Concentration of Arsenic, Copper, Nickel, and Zinc (µg/L; mean + SD) in water samples collected from Routine Water Quality Monitoring for disposal operations at ESC CMP V in November 2024

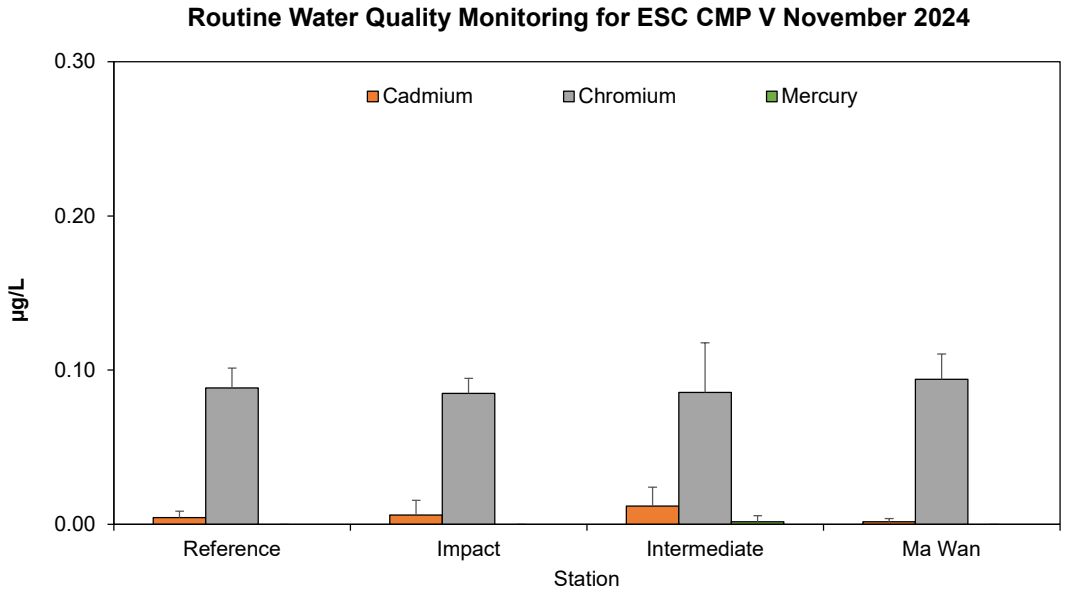

Figure 10: Concentration of Cadmium, Chromium and Mercury (µg/L; mean + SD) in water samples collected from Routine Water Quality Monitoring for disposal operations at ESC CMP V in November 2024

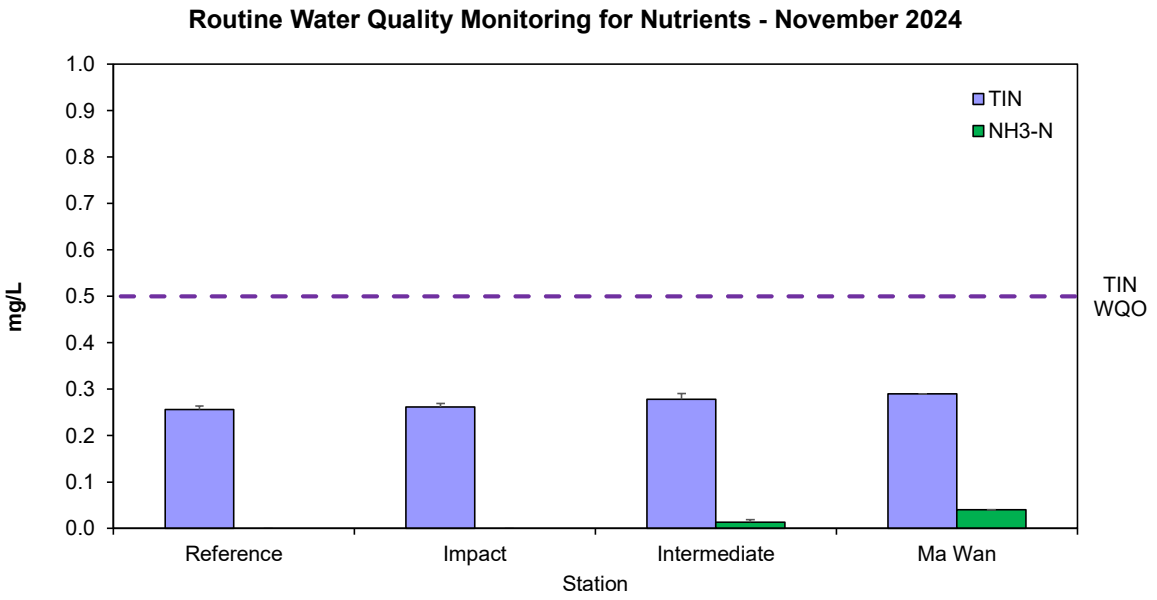

Figure 11: Concentration of Total Inorganic Nitrogen (TIN) and Ammonia Nitrogen (NH3-N)[1] (mg/L; mean + SD) in water samples collected from Routine Water Quality Monitoring for disposal operations at ESC CMP V in November 2024

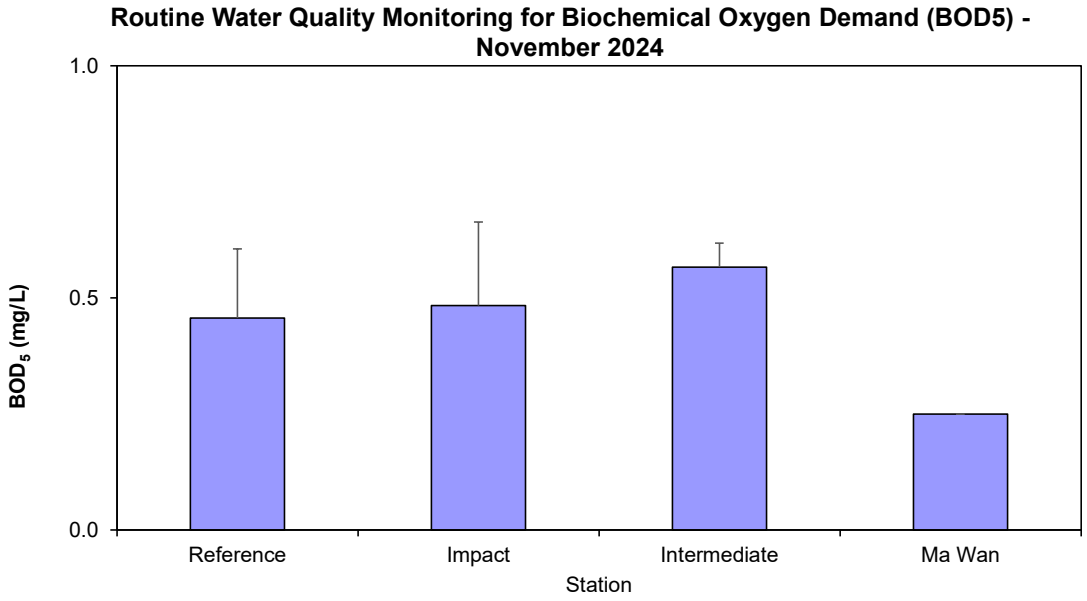

Figure 12: Level of Biochemical Oxygen Demand (BOD5)[2] (mg/L; mean + SD) in water samples collected from Routine Water Quality Monitoring for disposal operations at ESC CMP V in November 2024

1 Concentrations of Ammonia Nitrogen (NH3-N) at Reference station and Impact Station are below limit of reporting (LOR).

2 Levels of Biochemical Oxygen Demand (BOD5) at Ma Wan station are below limit of reporting (LOR).

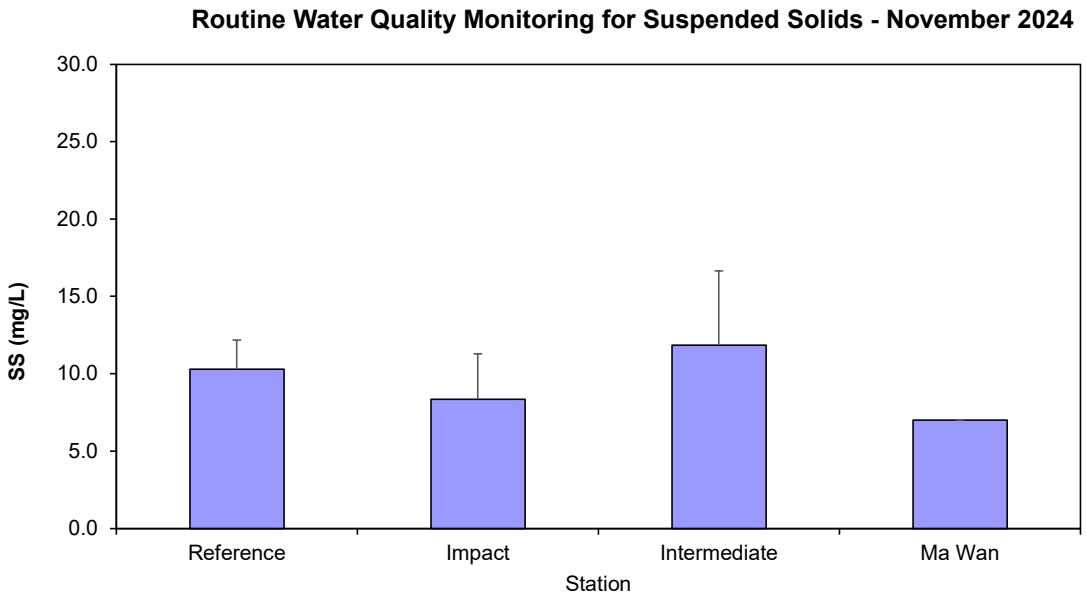

Figure 13 Concentration of Suspended Solids (SS) (mg/L; mean + SD) in water samples collected from Routine Water Quality Monitoring for disposal operations at ESC CMP V in November 2024

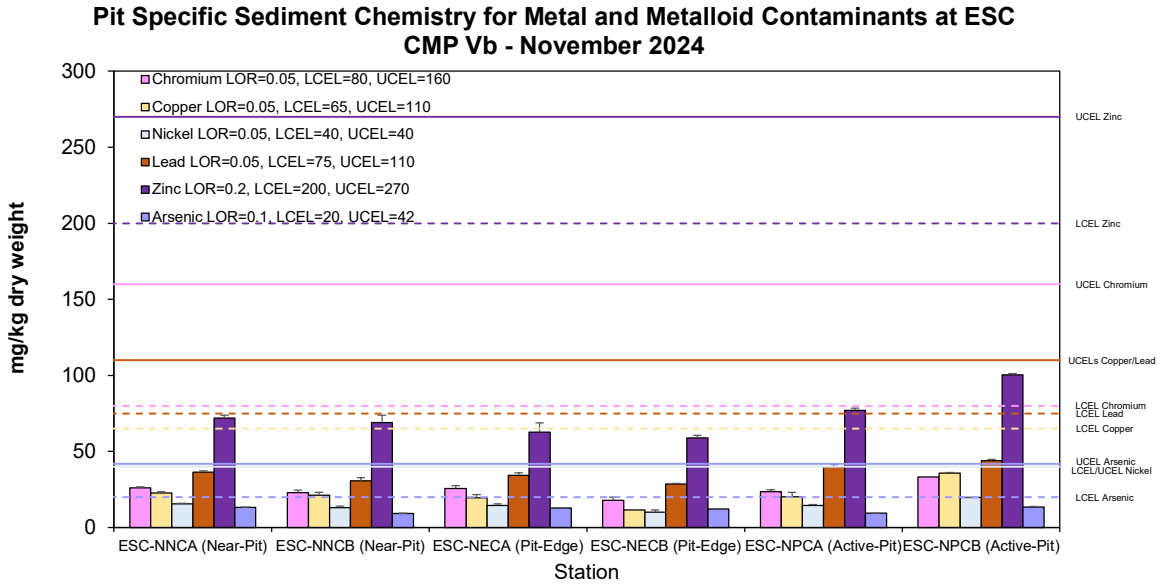

Figure 14: Concentration of Metals and Metalloid[1] (Cr, Cu, Ni, Pb, Zn, As; mg/kg dry weight; mean + SD) in sediment samples collected from Pit Specific Sediment Chemistry Monitoring for ESC CMP Vb in November 2024

1 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

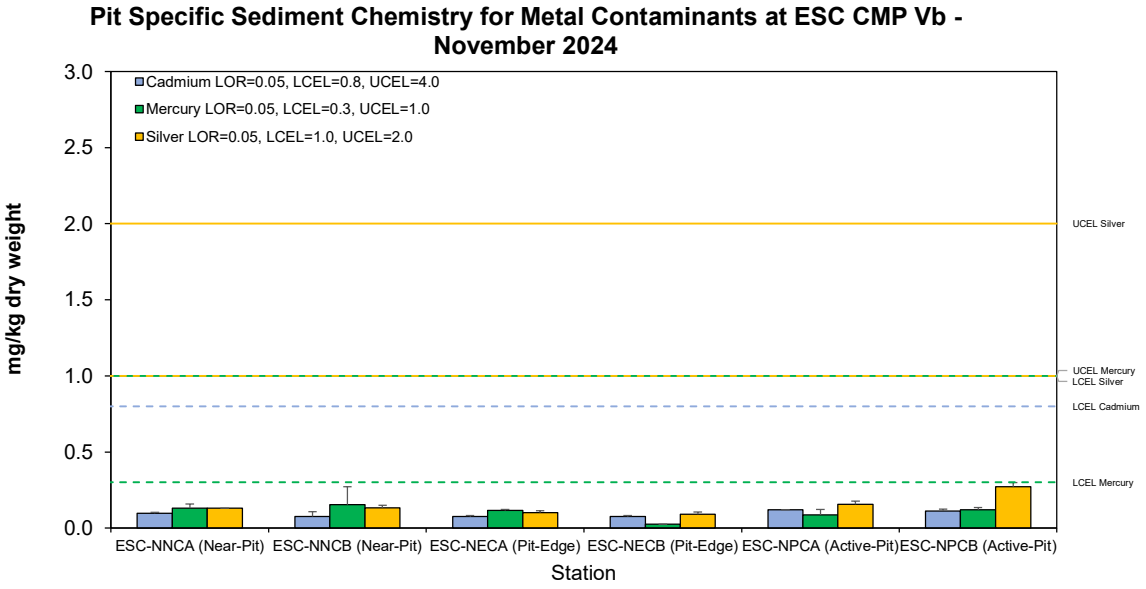

Figure 15: Concentration of Metals (Cd, Hg, Ag; mg/kg dry weight; mean + SD) in sediment samples collected from Pit Specific Sediment Chemistry Monitoring for ESC CMP Vb in November 2024

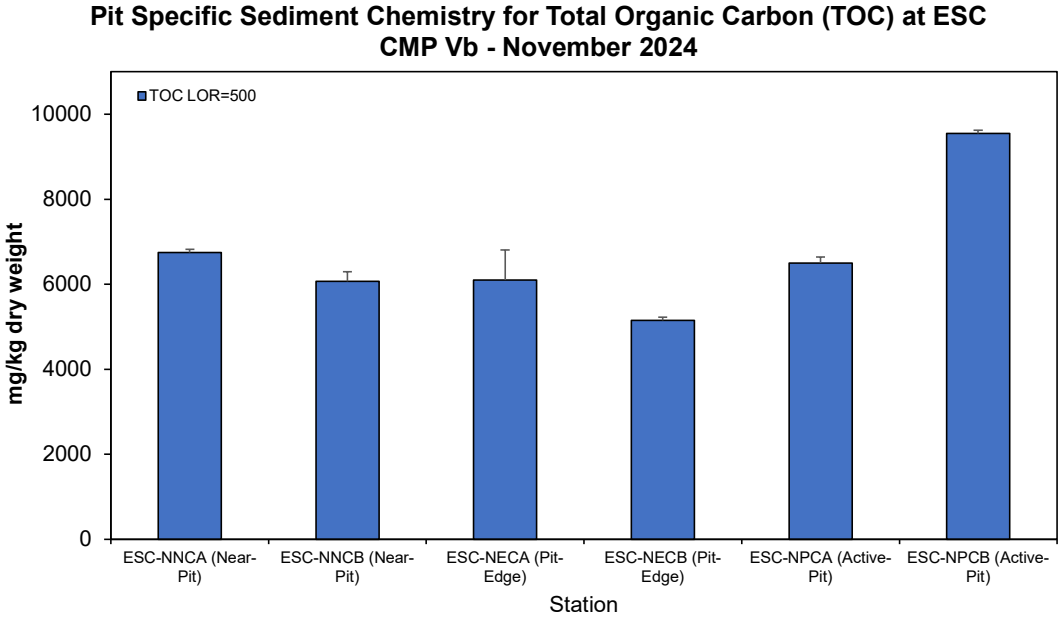

Figure 16: Concentration of Total Organic Carbon (TOC) (mg/kg dry weight; mean + SD) in sediment samples collected from Pit Specific Sediment Chemistry Monitoring for ESC CMP Vb in November 2024

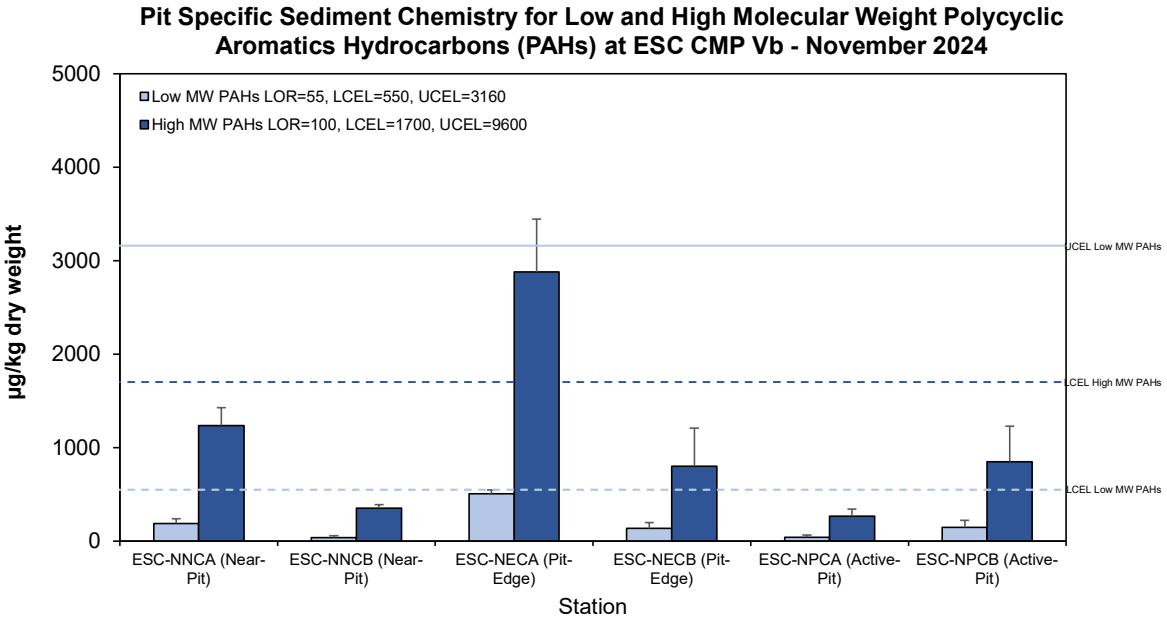

Figure 17: Concentration of Low and High Molecular Weight Polycyclic Aromatic Hydrocarbons (µg/kg dry weight; mean + SD) in sediment samples collected from Pit Specific Sediment Chemistry Monitoring for ESC CMP Vb in November 2024