Appendix C. Graphical Presentations

Routine Water Quality Monitoring for ESC CMP V - March 2024

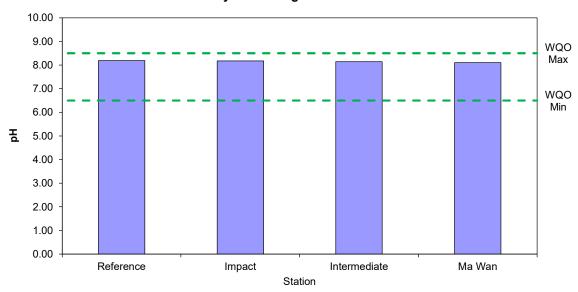


Figure 1: Level of pH recorded during Routine Water Quality Monitoring for disposal operations at ESC CMP V in March 2024

Routine Water Quality Monitoring for ESC CMP V - March 2024

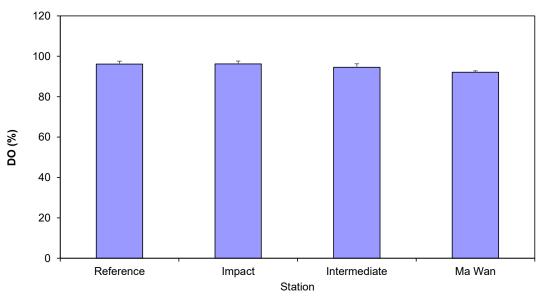


Figure 2: Level of Dissolved Oxygen (DO) (% saturation; mean + SD) recorded during Routine Water Quality Monitoring for disposal operations at ESC CMP V in March 2024

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 - March 2024

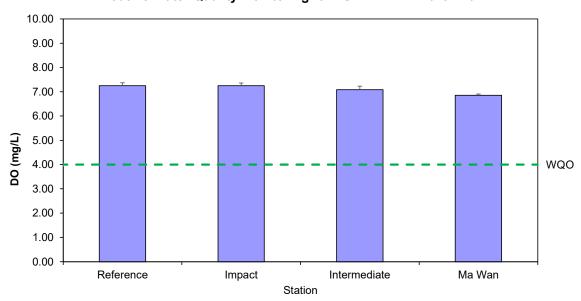


Figure 3: Concentration of Dissolved Oxygen (DO) (mg/L; mean + SD) recorded during Routine Water Quality Monitoring for disposal operations at ESC CMP V in March 2024

Routine Water Quality Monitoring for ESC CMP V - March 2024

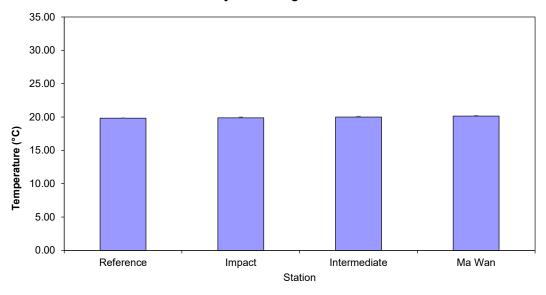


Figure 4: Level of Temperature (°C; mean + SD) recorded during Routine Water Quality Monitoring for disposal operations at ESC CMP V in March 2024

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



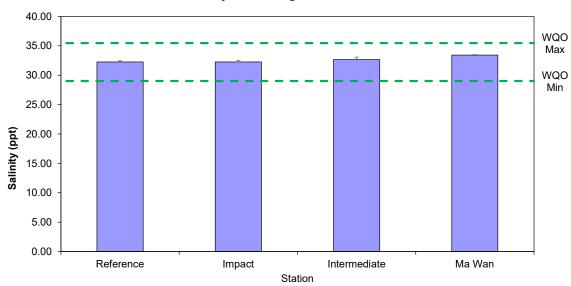


Figure 5: Level of Salinity (ppt; mean + SD) recorded during Routine Water Quality Monitoring for disposal operations at ESC CMP V in March 2024

Routine Water Quality Monitoring for ESC CMP V - March 2024

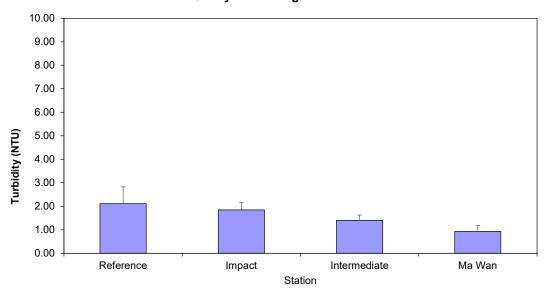


Figure 6: Level of Turbidity (NTU; mean + SD) recorded during Routine Water Quality Monitoring for disposal operations at ESC CMP V in March 2024

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 March 2024

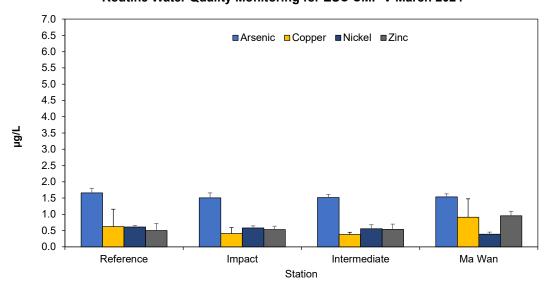


Figure 7: Concentration of Arsenic, Copper, Nickel, and Zinc (μg/L; mean + SD) in water samples collected from Routine Water Quality Monitoring for disposal operations at ESC CMP V in March 2024

Routine Water Quality Monitoring for ESC CMP V March 2024

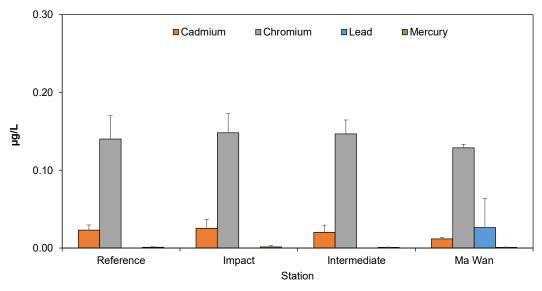
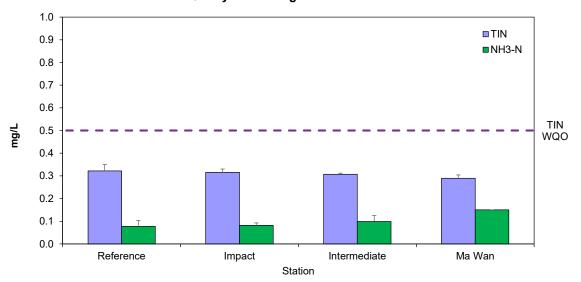


Figure 8: Concentration of Cadmium, Chromium, Lead and Mercury, (µg/L; mean + SD) in water samples collected from Routine Water Quality Monitoring for disposal operations at ESC CMP V in March 2024



Routine Water Quality Monitoring for Nutrients - March 2024



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 March 2024 Figure 9:

Routine Water Quality Monitoring for Biochemical Oxygen Demand (BOD5) -March 2024 1.0 0.5 0.0 Reference Impact Intermediate Ma Wan Station

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

Routine Water Quality Monitoring for Suspended Solids - March 2024

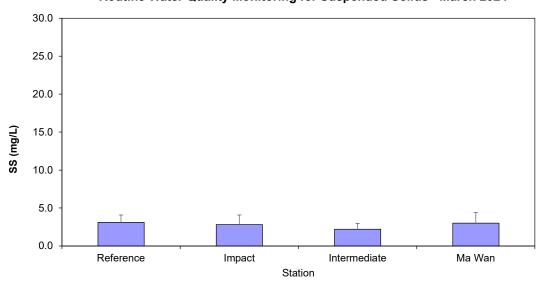


Figure 11 Concentration of Suspended Solids (SS) (mg/L; mean + SD) in water samples collected from Routine Water Quality Monitoring for disposal operations at ESC CMP V in March 2024

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

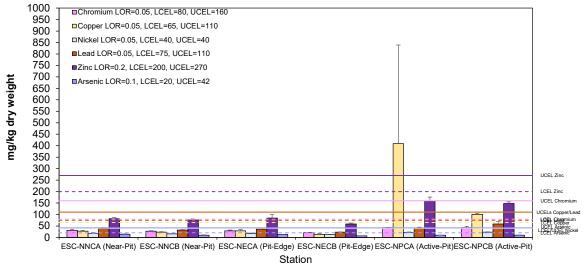


Figure 12: Concentration of Metals and Metalloid²(Cr, Cu, Ni, Pb, Zn, As; mg/kg dry weight; mean + SD) in sediment samples collected from Pit Specific Sediment Chemistry Monitoring for ESC CMP Vb in March 2024

The LCEL and UCEL of Cadmium, Mercury and Arsenic have been updated according to the latest standard. 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 - March 2024

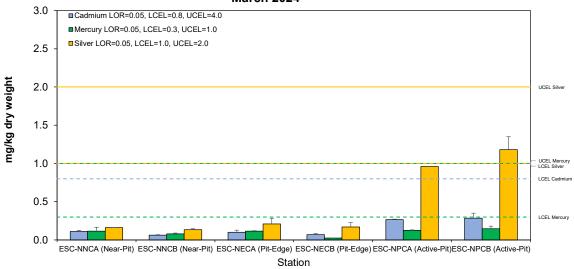


Figure 13: Concentration of Metals²(Cd, Hg, Ag; mg/kg dry weight; mean + SD) in sediment samples collected from Pit Specific Sediment Chemistry Monitoring for ESC CMP Vb in March 2024

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

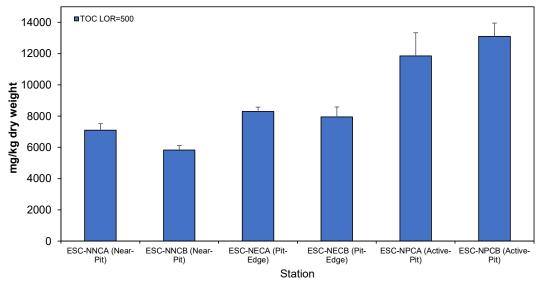


Figure 14: Concentration of Total Organic Carbon (TOC) (mg/kg dry weight; mean + SD) in sediment samples collected from Pit Specific Sediment Chemistry Monitoring for ESC CMP Vb in March 2024

The LCEL and UCEL of Cadmium, Mercury and Arsenic have been updated according to the latest standard. 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 - March 2024

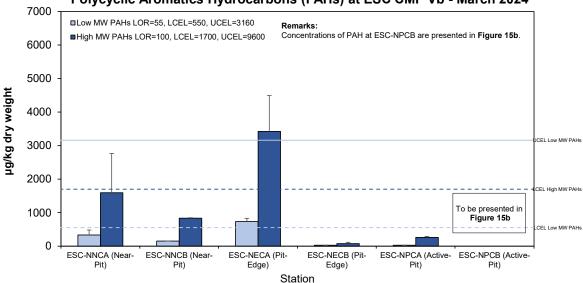


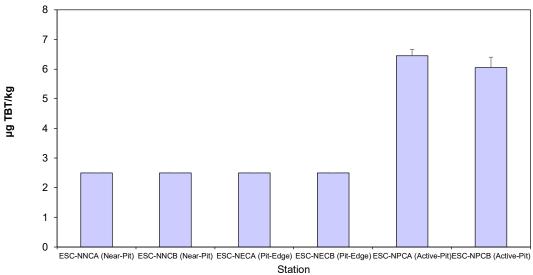
Figure 15a Concentration of Low and High Molecular Weight Polycyclic Aromatic Hydrocarbons (μg/kg dry weight; mean + SD) in sediment samples collected from Pit Specific Sediment Chemistry Monitoring for ESC CMP Vb in March 2024

Pit Specific Sediment Chemistry for Low and High Molecular Weight Polycyclic Aromatics Hydrocarbons (PAHs) at ESC CMP Vb - March 2024 25000 □Low MW PAHs LOR=55, LCEL=550, UCEL=3160 ■High MW PAHs LOR=100, LCEL=1700, UCEL=9600 20000 Remarks: Concentrations of PAH at ESC-NNCA, ESC-NNCB, ESC-NECA, ESC-NECB and ESC-NPCA are presented in Figure 15a. µg/kg dry weight 15000 10000 5000 To be presented in Figure 15a CEL High MW PAHs 0 ESC-NNCA (Near-ESC-NNCB (Near-ESC-NECA (Pit-ESC-NECB (Pit-ESC-NPCA (Active- ESC-NPCB (Active-Station

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 March 2024



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



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