

Water Column Profiling for CMP 1 - January 2014

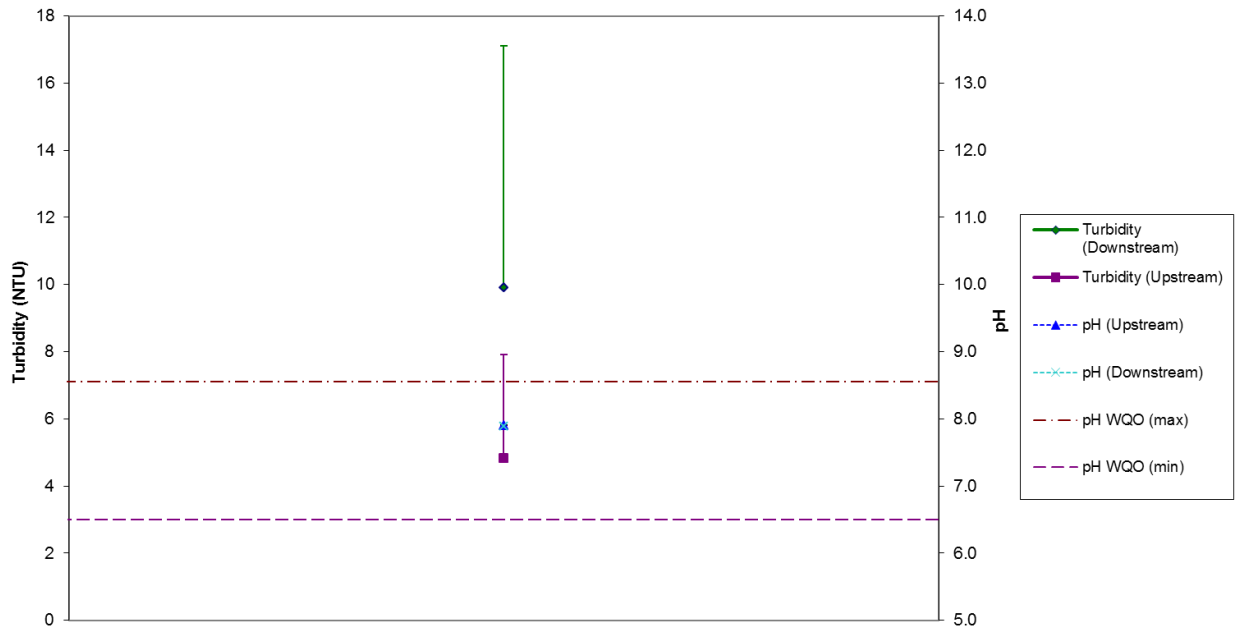


Figure 1: Turbidity and pH (mean + SD) recorded during *Water Column Profiling* for disposal operations at CMP 1 in January 2014.

Water Column Profiling for CMP 1 - January 2014

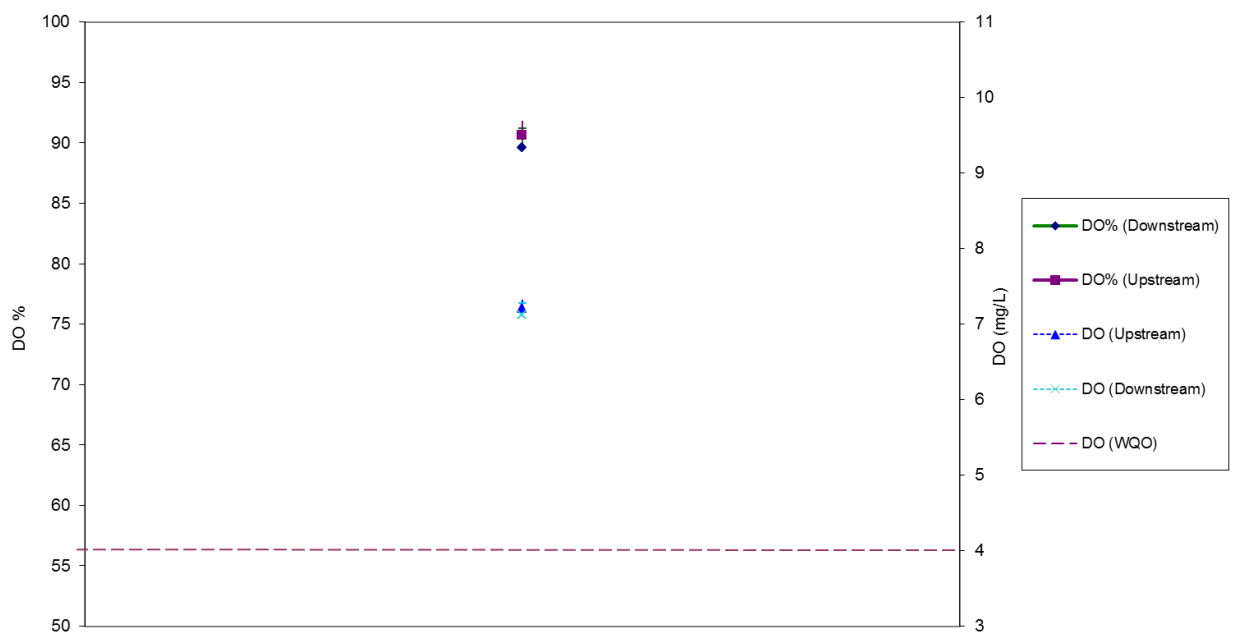


Figure 2: Dissolved Oxygen (mean + SD) recorded during *Water Column Profiling* for disposal operations at CMP 1 in January 2014.

Water Column Profiling for CMP 1 - January 2014

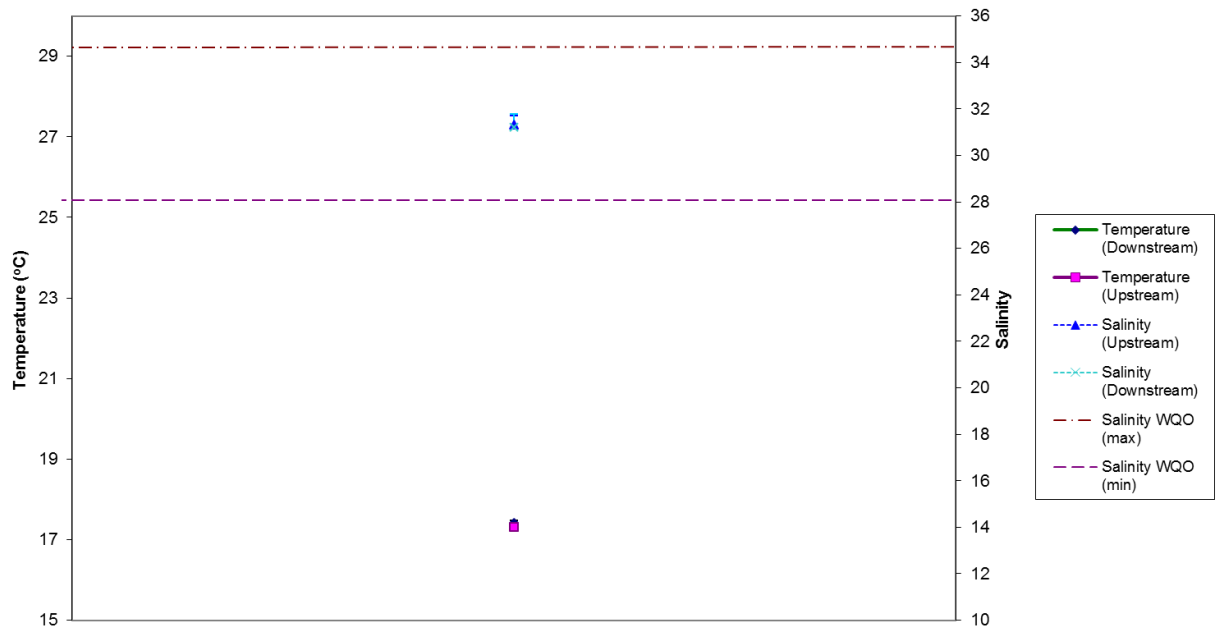


Figure 3: Salinity and Temperature (mean + SD) recorded during *Water Column Profiling* for disposal operations at CMP 1 in January 2014.

Water Column Profiling for CMP 1 - January 2014

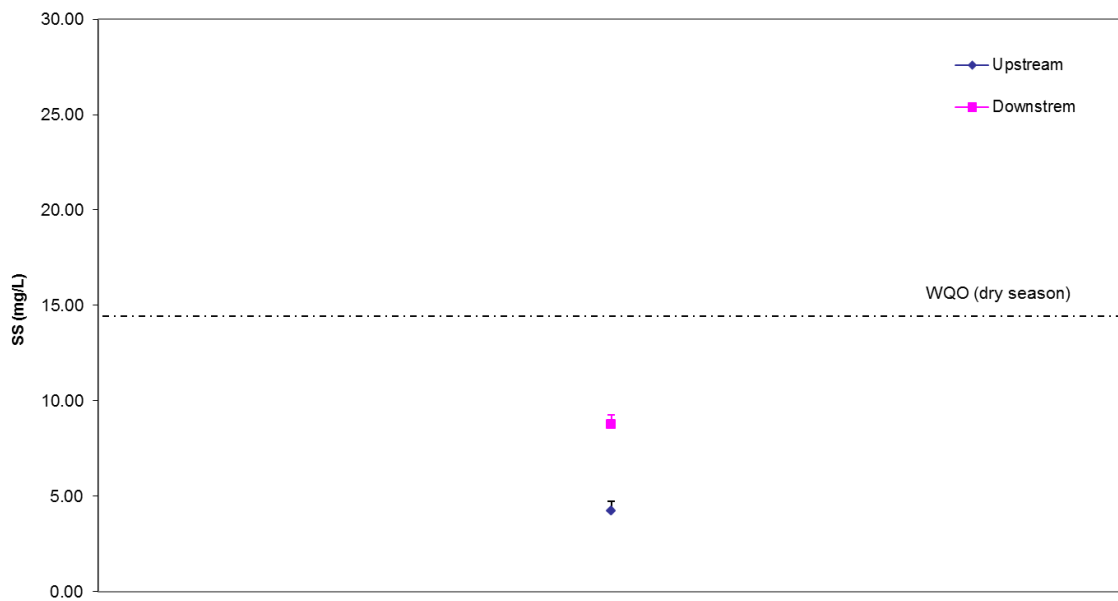


Figure 4: Suspended Solids (mean + SD) recorded during *Water Column Profiling* for disposal operations at CMP 1 in January 2014.

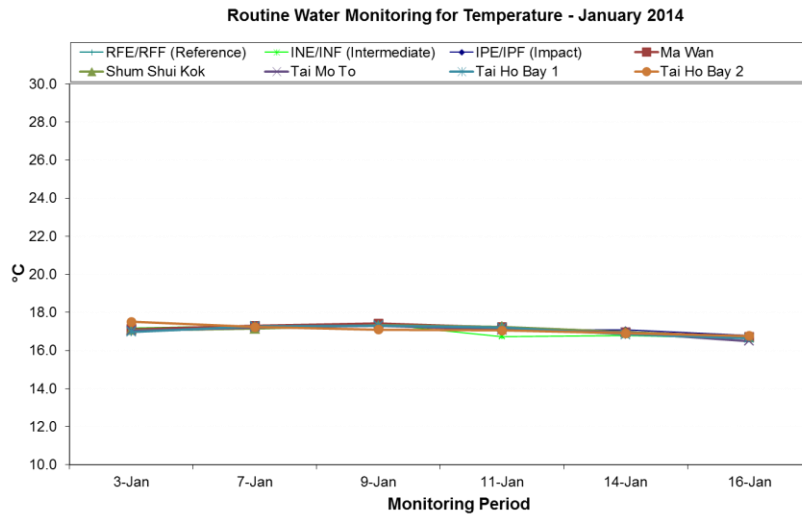


Figure 5: Daily levels of Temperature during *Routine Water Quality Monitoring* for disposal operations at CMP 1 in January 2014.

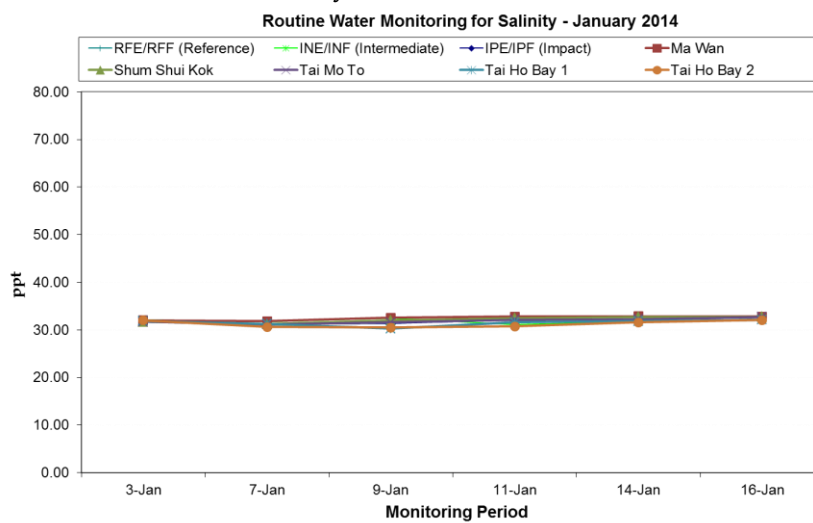


Figure 6: Daily levels of Salinity during *Routine Water Quality Monitoring* for disposal operations at CMP 1 in January 2014.

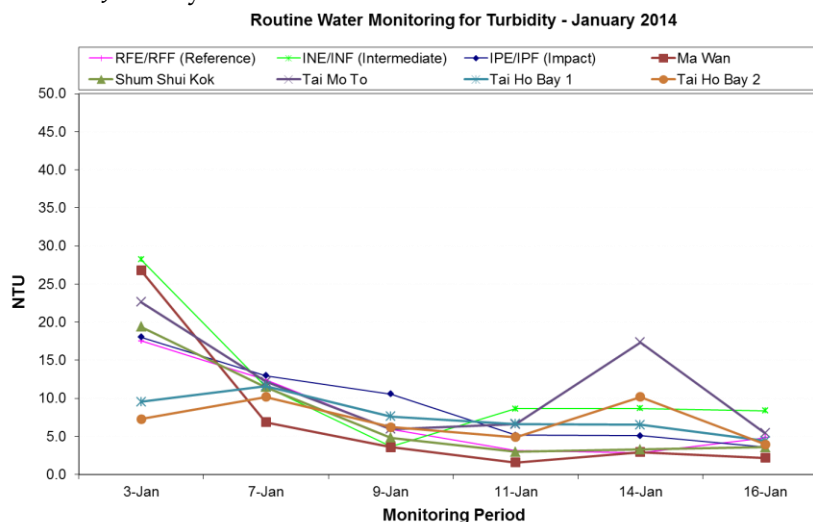


Figure 7: Daily levels of Turbidity during *Routine Water Quality Monitoring* for disposal operations at CMP 1 in January 2014.

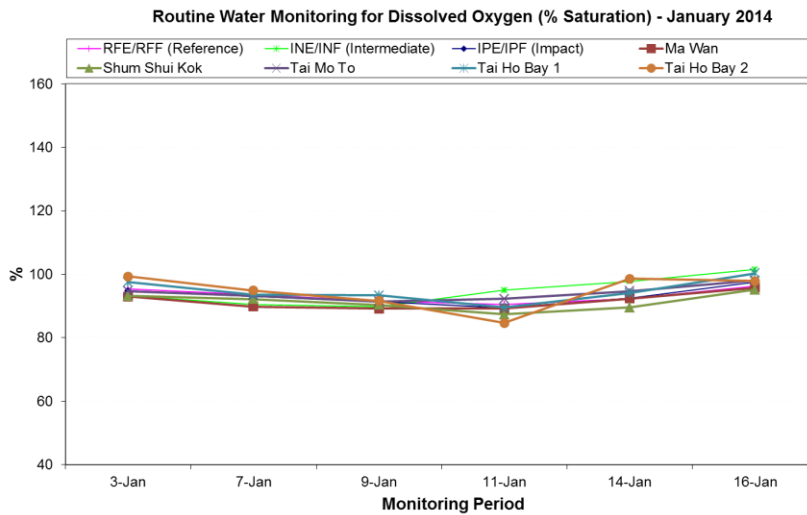


Figure 8: Daily levels of Dissolved Oxygen (%) during Routine Water Quality Monitoring for disposal operations at CMP 1 in January 2014.

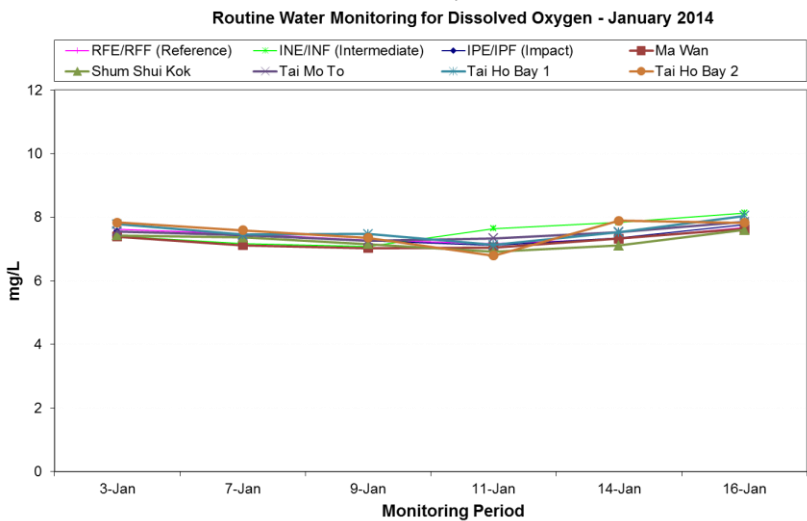


Figure 9: Daily levels of Dissolved Oxygen (mg/L) during Routine Water Quality Monitoring for disposal operations at CMP 1 in January 2014.

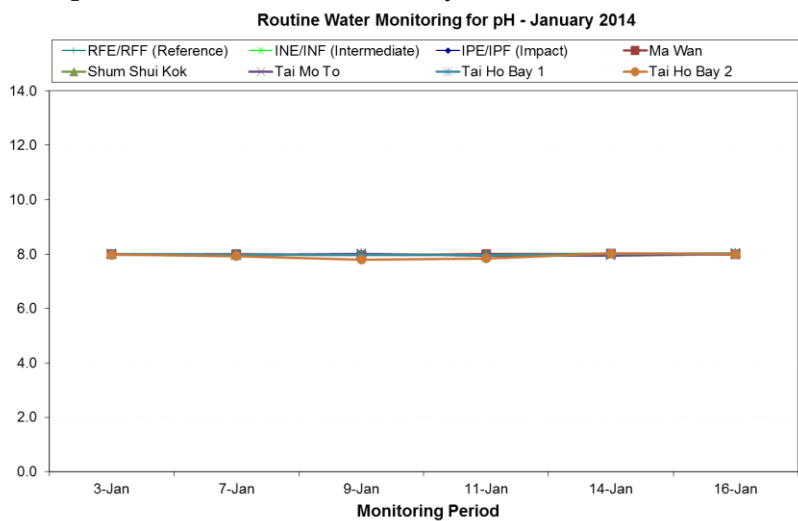


Figure 10: Daily levels of pH during Routine Water Quality Monitoring for disposal operations at CMP 1 in January 2014.

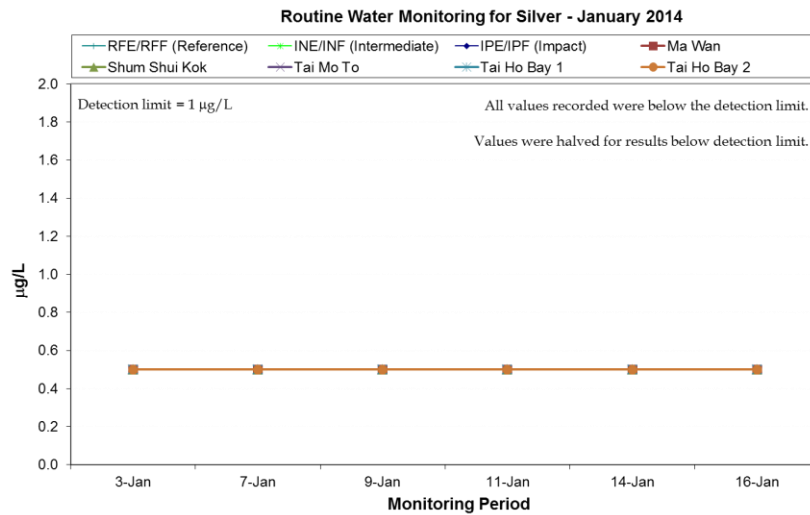


Figure 11: Daily levels of Silver during *Routine Water Quality Monitoring* for disposal operations at CMP 1 in January 2014.

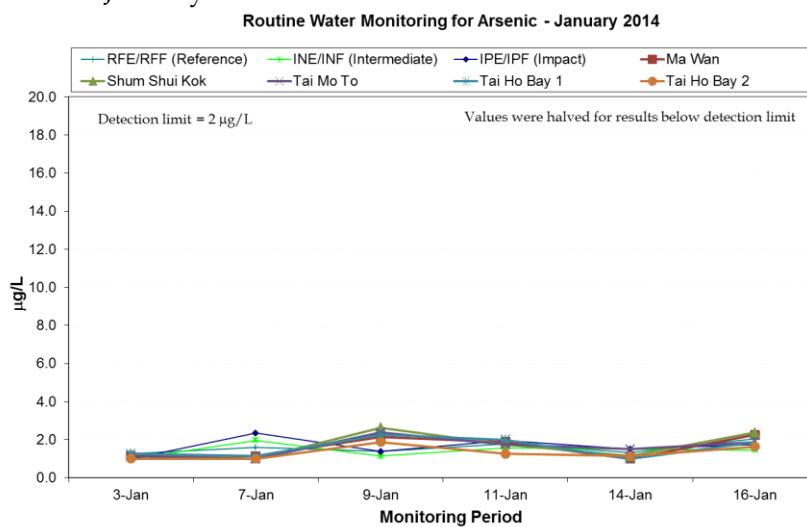


Figure 12: Daily levels of Arsenic during *Routine Water Quality Monitoring* for disposal operations at CMP 1 in January 2014.

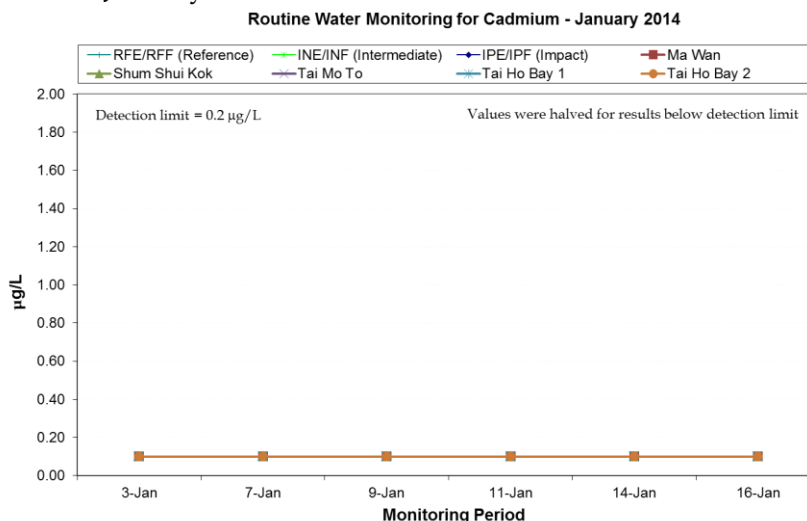


Figure 13: Daily levels of Cadmium during *Routine Water Quality Monitoring* for disposal operations at CMP 1 in January 2014.

Source: H:\Team\EM\GMS Projects\0175086 CEDD EM&A for South Brothers\02 Deliverable\07 CMP Monthly Report\17th (January 2013) \Annex

Date: 14/2/14

**Environmental
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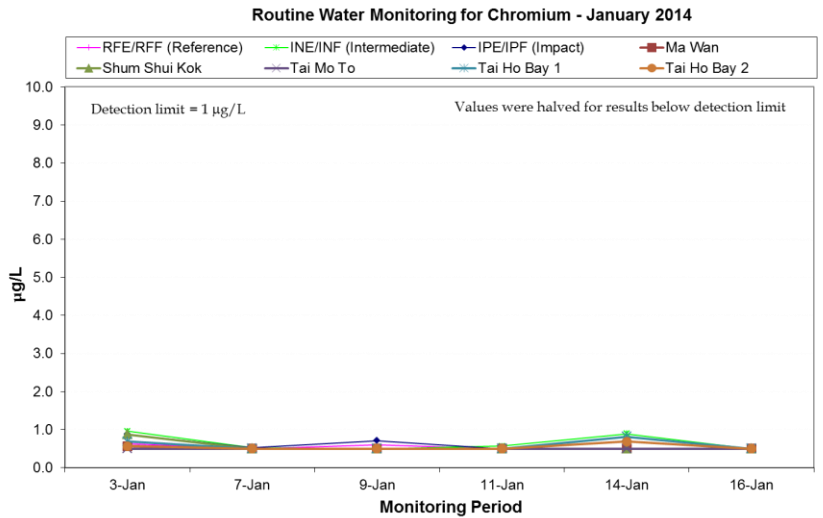


Figure 14: Daily levels of Chromium during *Routine Water Quality Monitoring* for disposal operations at CMP 1 in January 2014.

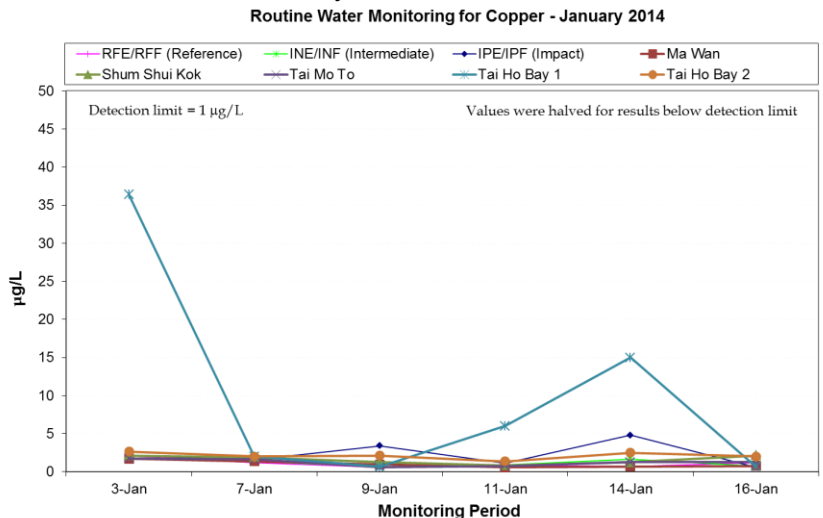


Figure 15: Daily levels of Copper during *Routine Water Quality Monitoring* for disposal operations at CMP 1 in January 2014.

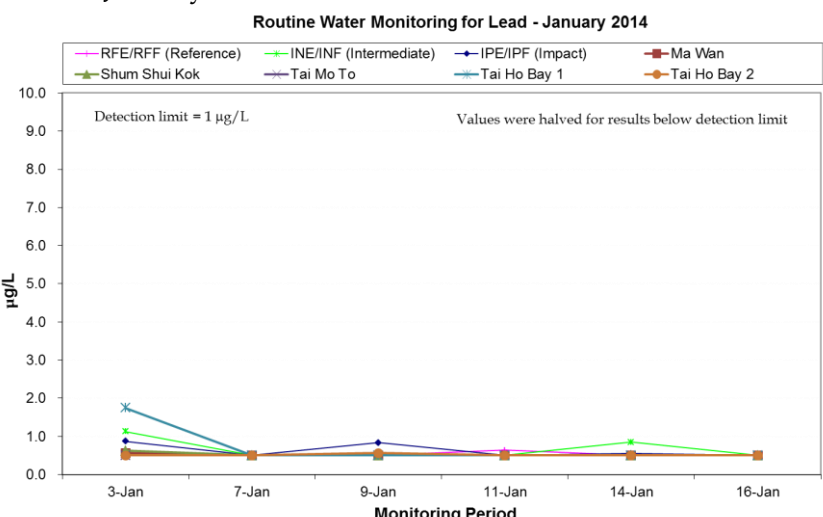


Figure 16: Daily levels of Lead during *Routine Water Quality Monitoring* for disposal operations at CMP 1 in January 2014.

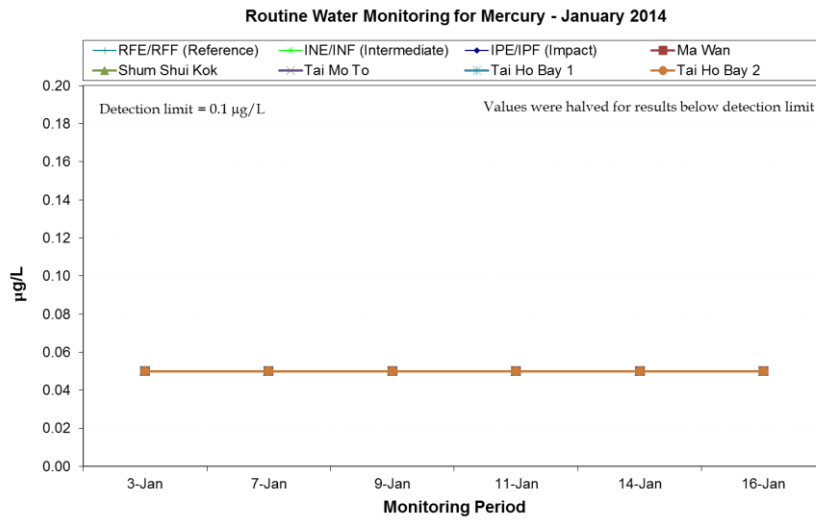


Figure 17: Daily levels of Mercury during *Routine Water Quality Monitoring* for disposal operations at CMP 1 in January 2014.

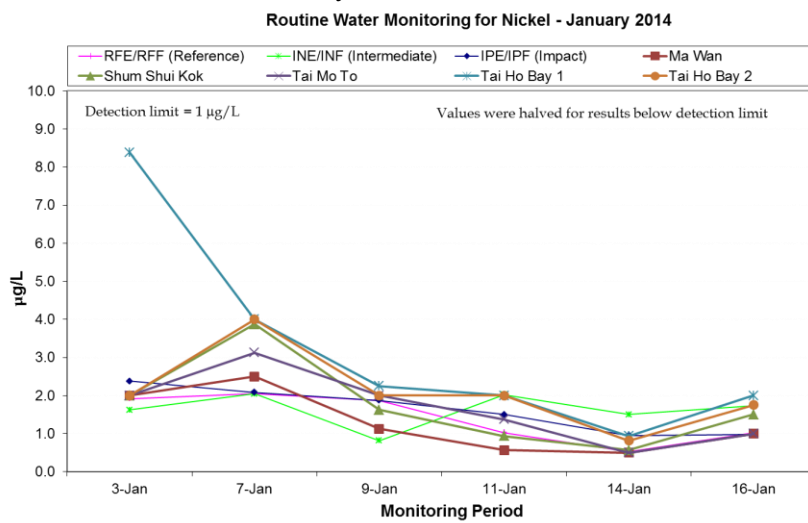


Figure 18: Daily levels of Nickel during *Routine Water Quality Monitoring* for disposal operations at CMP 1 in January 2014.

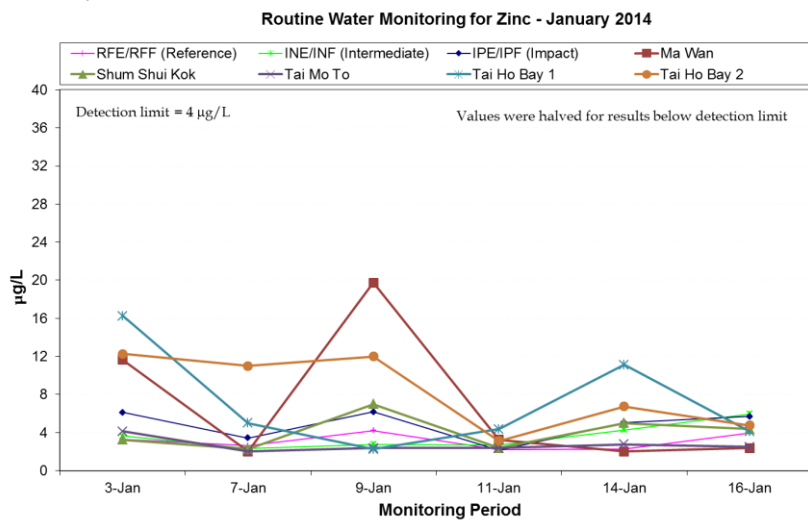


Figure 19: Daily levels of Zinc during *Routine Water Quality Monitoring* for disposal operations at CMP 1 in January 2014.

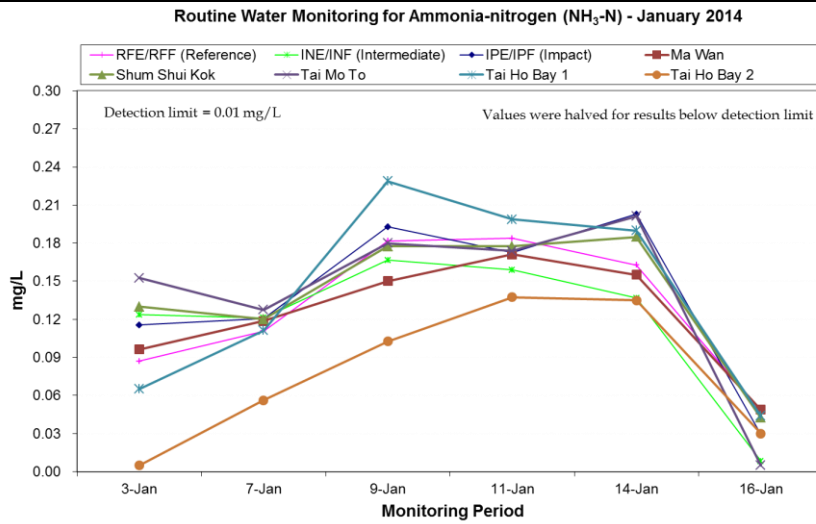


Figure 20: Daily levels of Ammonia-Nitrogen during *Routine Water Quality Monitoring* for for disposal operations at CMP 1 in January 2014.

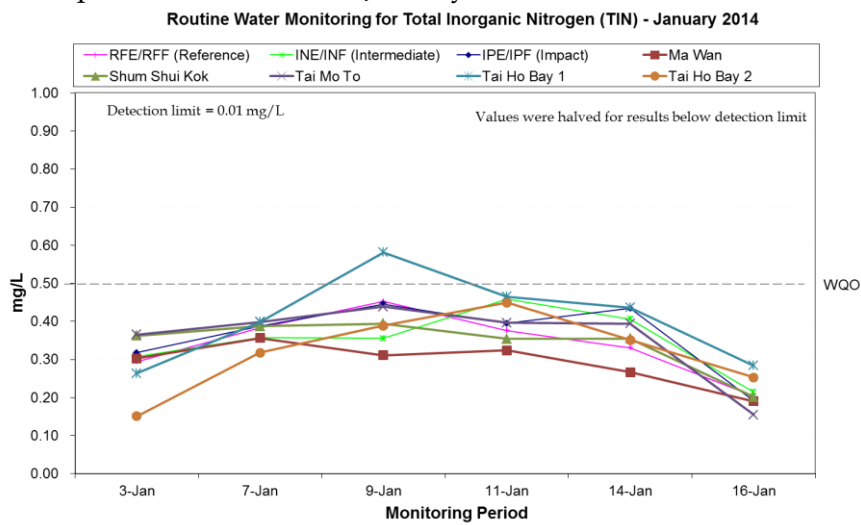


Figure 21: Daily levels of Total Inorganic Nitrogen during *Routine Water Quality Monitoring* for disposal operations at CMP 1 in January 2014.

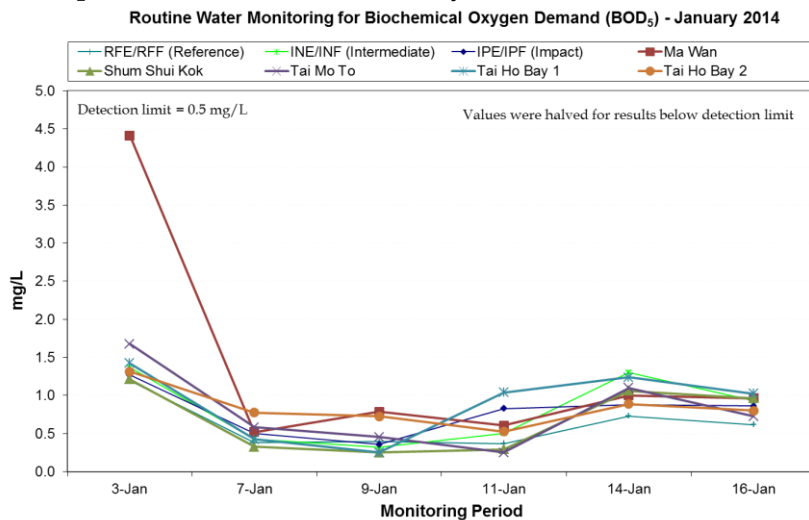


Figure 22: Daily levels of Biochemical Oxygen Demand during *Routine Water Quality Monitoring* for disposal operations at CMP 1 in January 2014.

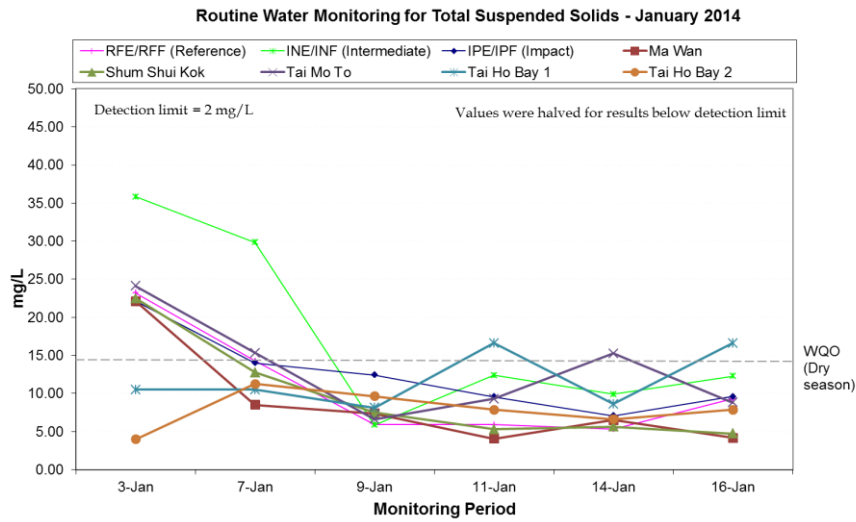


Figure 23: Daily levels of Total Suspended Solids during *Routine Water Quality Monitoring* for disposal operations at CMP 1 in January 2014.

**Pit Specific Sediment Chemistry for Metal Contaminants at CMP 1
November 2013**

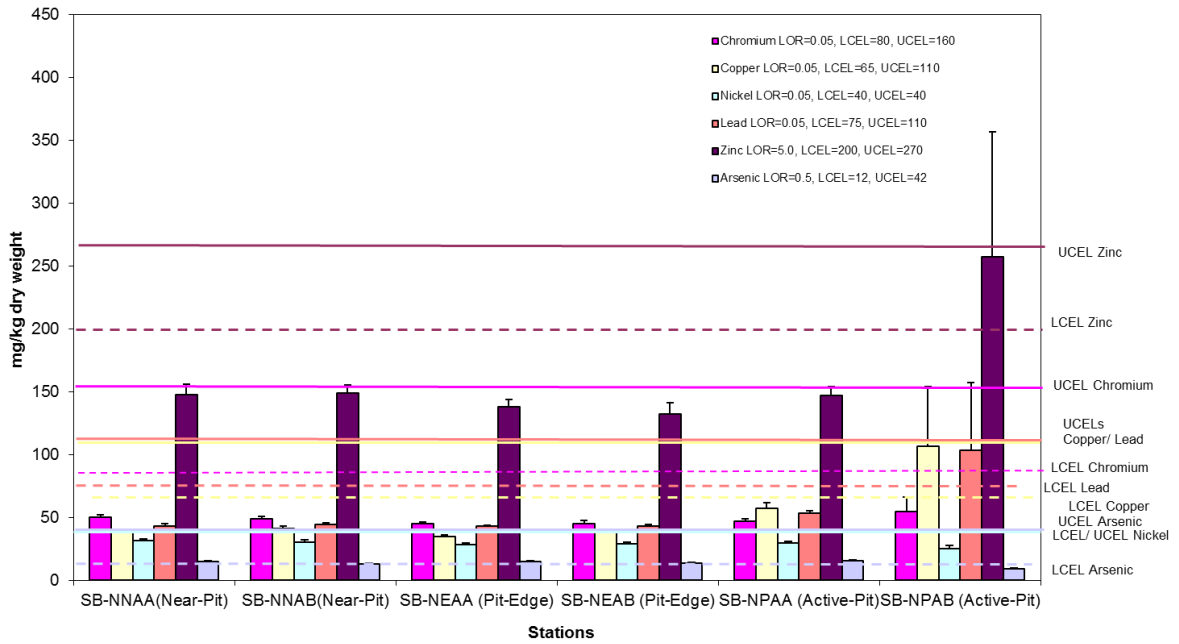


Figure 24: Concentration of Metals (Cr, Cu, Ni, Pb, Zn, As; mean +SD) in sediment samples collected from *Pit Specific Sediment Chemistry Monitoring* for CMP 1 in November 2013.

**Pit Specific Sediment Chemistry for Metal Contaminants at CMP 1
November 2013**

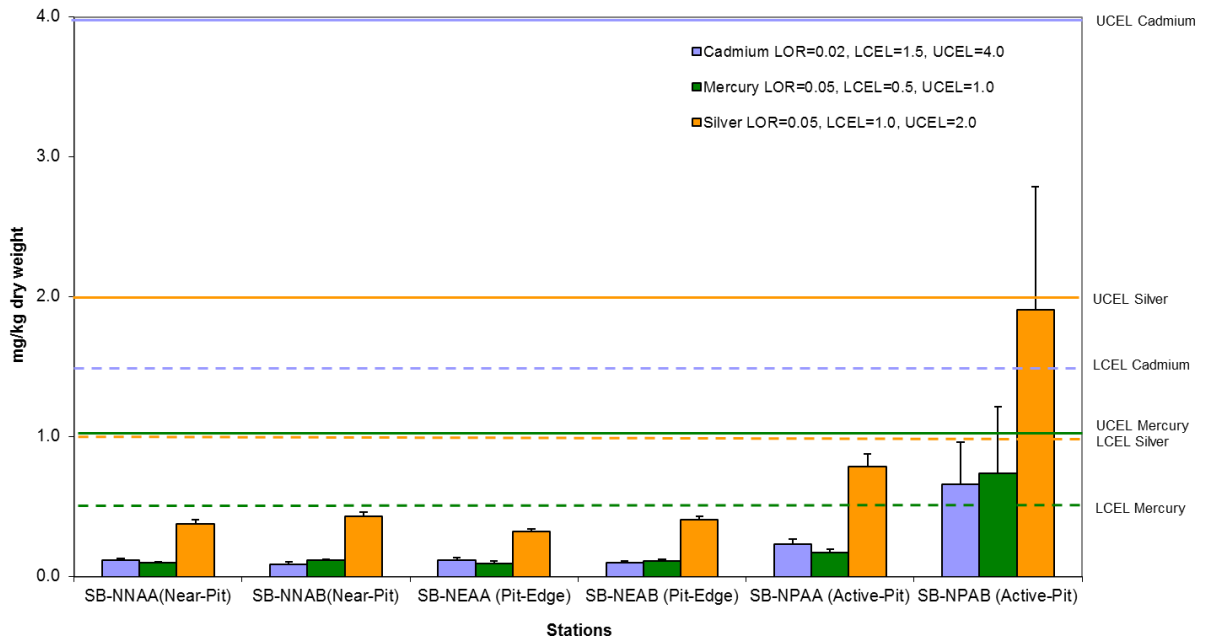


Figure 25: Concentration of Metals (Cd, Hg, Ag; mean +SD) in sediment samples collected from *Pit Specific Sediment Chemistry Monitoring* for CMP 1 in November 2013.

**Pit Specific Sediment Chemistry for Total Organic Carbon (TOC) at CMP 1
November 2013**

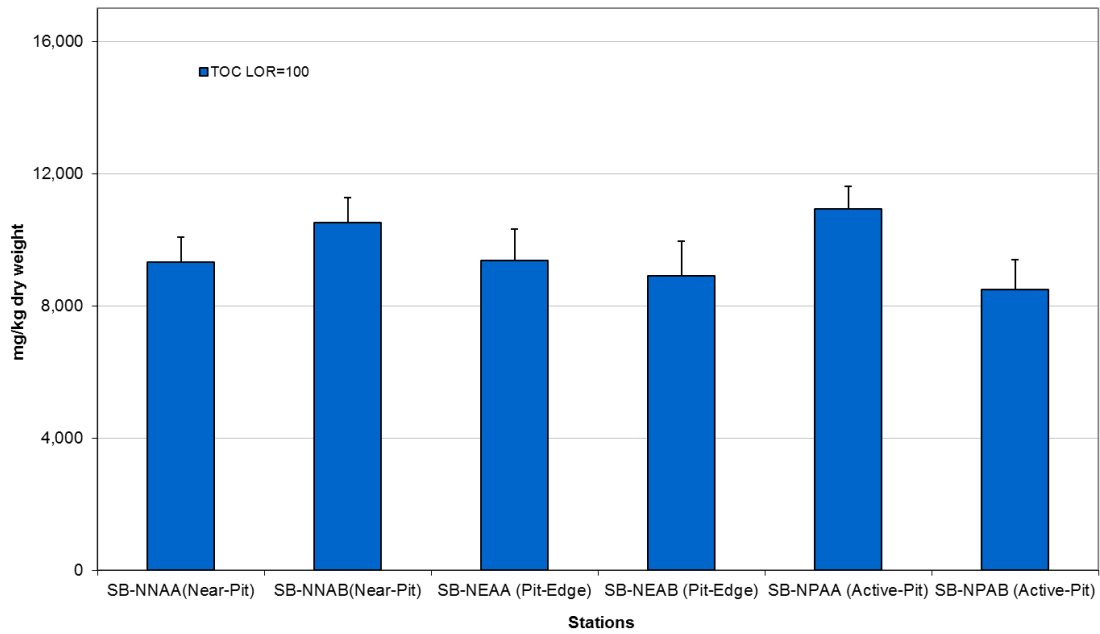


Figure 26: Concentration of Total Organic Carbon (mg/kg dry weight; mean +SD) in sediment samples collected from *Pit Specific Sediment Chemistry Monitoring* for CMP 1 in November 2013.

Pit Specific Sediment Chemistry for Tributyltin (TBT) at CMP 1 in November 2013

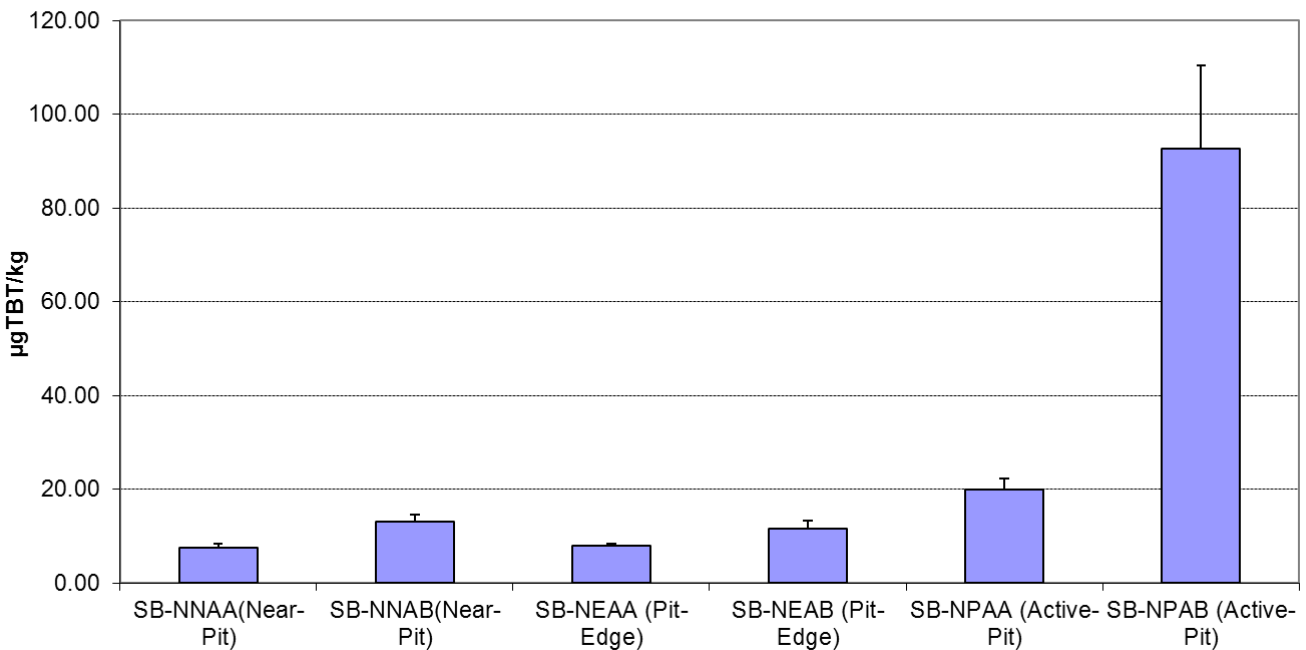


Figure 27: Concentration of Tributyltin ($\mu\text{g TBT/kg}$; mean +SD) in sediment samples collected from *Pit Specific Sediment Chemistry Monitoring* of CMP 1 in November 2013.

Pit Specific Sediment Chemistry for Low and High Molecular Weight Polycyclic Aromatics Hydrocarbons (PAHs) at CMP 1 in November 2013

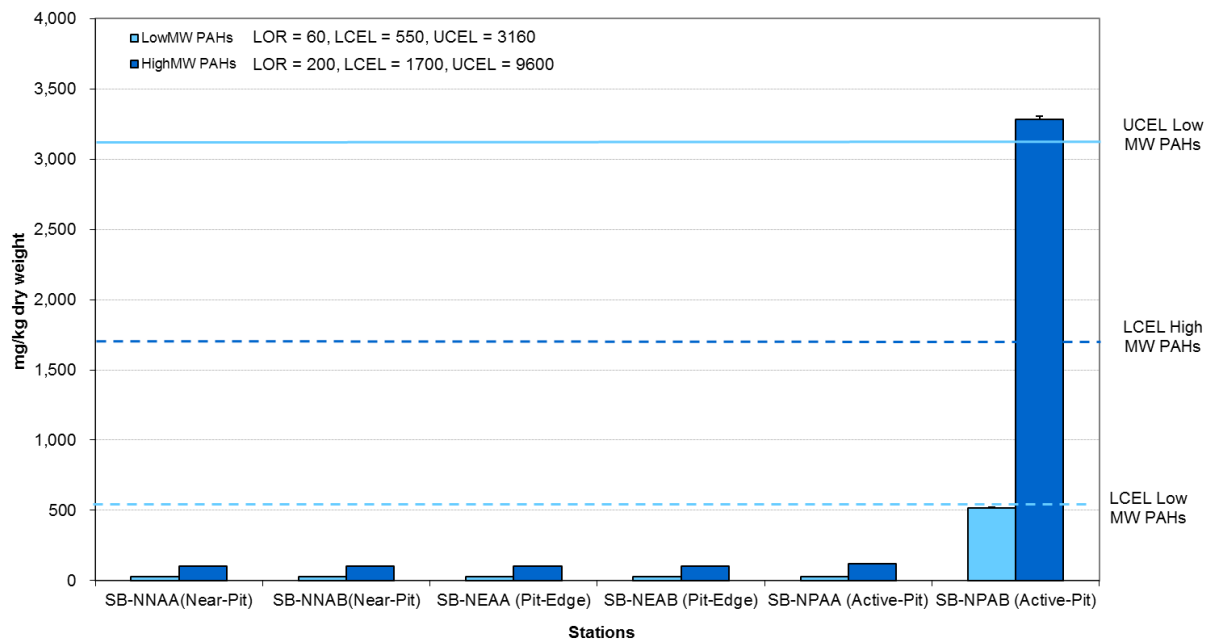


Figure 28: Concentration of Low and High Molecular Weight Polycyclic Aromatics Hydrocarbons (mg/kg dry weight; mean +SD) in sediment samples collected from *Pit Specific Sediment Chemistry Monitoring* for CMP 1 in November 2013.