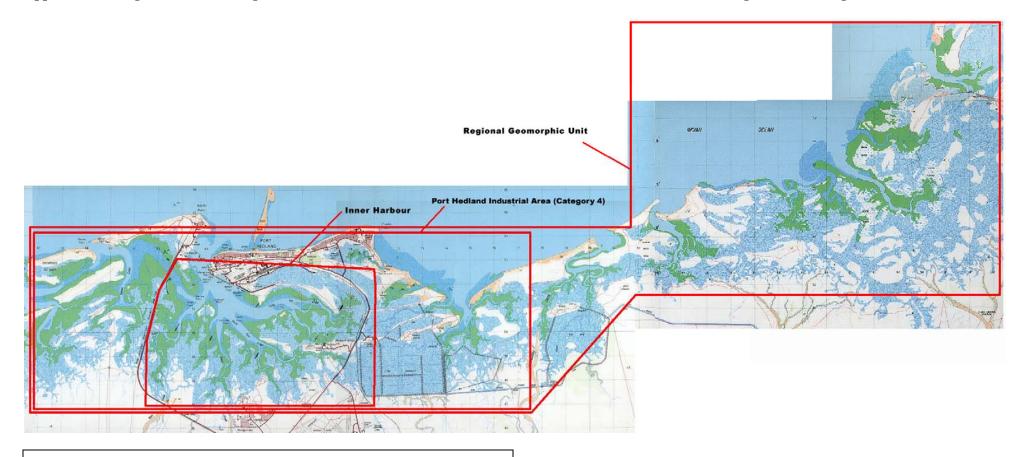
Appendix 3: Mangrove BPPH Management Unit and Cumulative Loss Calculations for the Revised FMG Port design (Based on Figure 1).



## Current Mangrove Areas in each Management Unit

Inner harbour total: 1,108 ha -> ~Management unit total size = 56 km2

Port Hedland Industrial Area total: 2,334 ha -> ~Management unit total size = 161 km2

Regional Geomorphic Unit total: 3,869 ha -> ~Management unit total size = 326 km2

# 1960 Mangrove Extent

Inner harbour: 1,263 ha

Port Hedland Industrial Area Unit: 2,676 ha

Regional Geomorphic total: 4,211 ha

### Historical Losses

#### **Total BPPH loss**

BHP E Creek et al: 155 ha Inner harbour: 244 ha
Hope Downs: 89 ha Local geomorphic unit: 342 ha
Cargill Salt condensors: 86 ha Regional geomorphic unit: 342 ha

Cargill Salt crystallisers: 12 ha

342 ha

#### -> Cumulative loss % to date

Inner harbour: 19.3%

Port Hedland Industrial Area: 12.8% Regional Geomorphic unit: 8.1%

## Additional clearing presented by FMG proposal - Revised Spoil Basin Design

Considering loss of true mangrove BPPH (associations 1-5; which includes the open canopy' mangrove cover (association 5)), additional clearing of mangrove associations totals:

14.8 ha

# FMG proposal cumulative loss - Revised Spoil Basin Design

Considering loss of true mangrove BPPH (associations 1-5; which includes the open canopy' mangrove cover (association 5)), total cumulative loss would be:

Inner harbour: 258.8 ha

Port Hedland Industrial Area: 356.8 ha Regional geomorphic unit: 356.8 ha

Inner harbour: 20.5%

Port Hedland Industrial Area: 13.3% Regional geomorphic unit: 8.5%