

5. CONCLUSIONS AND RECOMMENDATIONS

Conclusions

- 5.1 Environmental monitoring works were performed in this reporting month and all monitoring results were checked and reviewed.
- 5.2 A total of fifteen events showing exceedances of Action/Limit Levels for suspended solids (SS) were recorded at the monitoring stations W1, W2 and W3 on 13th, 14th, 20th, 23rd, 26th, 27th and 30th in the reporting month.
- 5.3 There was no exceedance of Action/Limit Levels for turbidity recorded at the monitoring stations W1, W2 and W3 in the reporting month.
- 5.4 A total of forty-nine events showing exceedances of Action/Limit Levels for dissolved oxygen (DO) at the monitoring stations W1, W2 and W3 were recorded on 7th, 8th, 9th, 13th, 14th, 20th, 26th, 27th and 30th in the reporting month.
- 5.5 For the continuous water quality monitoring at station WS, there was no event showing exceedances of Action/Limit levels for turbidity while events showing exceedances of Action/Limit levels for DO levels were recorded on 13th, 14th, 23rd, 26th, 27th and 30th in the reporting month.
- 5.6 According to the ET's investigation, no direct evidence demonstrating that the exceedances of Action/Limit levels for SS on 13th, 14th, 23rd and 26th were caused by the Project was identified. The cause of exceedances might be due to the high natural background outside Sum Wan, as the SS levels of station W1 (the closest monitoring station to the Project area) were lower than those of stations W2 (Control Station during the mid-ebb tide) and W3 (Control Station during the mid-flood tide).
- 5.7 However, Limit Level exceedances of SS were recorded during ebb-tide on 20th, 27th and 30th July 2004 at stations W1 and W2. The exceedances were likely due to the Project works as the SS levels of station W1 were higher than that of station W2. Moreover, during the site audit on 28th July 2004, a yellow plume of sediment which was likely generated by the Project works was observed around the jetty. The exceedances were therefore considered to be valid.
- 5.8 All the exceedances of Action/Limit levels for DO were unlikely due to the Project owing to the high water temperature during the reporting month. It is understood that the concentration of DO will decrease with the increasing water temperature.
- 5.9 ET Leader informed all relevant parties and identified the cause of exceedances. Proper mitigation measures were recommended to the Contractor to improve the situation:
- totally surrounded by tarpaulin sheets to prevent the effluent from splashing into the sea;
 - surrounding the works area with sufficient clean sand bags to avoid direct runoff from entering the sea;
 - collecting and diverting the effluent to the sedimentation tank prior to discharge;

- clearing the unnecessary materials and equipment on the jetty to provide sufficient space for carrying out the piling works; and
 - installing a curtain on the right hand side of the jetty when viewing from the Facility to confine the plume dispersion.
- 5.10 Monthly site audit was performed in the reporting month on 28th July 2004. No non-conformance was identified during the site audit.
- 5.11 No environmental complaint or prosecution was received during the reporting month.
- 5.12 According to the environmental audit performed in the reporting month, the following recommendations were made:

Dust Impact

- To prohibit open burning on site.
- To regularly maintain the machinery and vehicles on site
- To implement dust suppression measures on dust-generating activities (e.g. site clearance)

Water Impact

- To identify any wastewater discharge from site.
- To regularly maintain the sediment control measures.
- To implement proper mitigation measures to avoid surface runoff into the sea.

Waste/Chemical Management

- To check for any accumulation of waste materials or rubbish on site.
- To avoid any discharge or accidental spillage of chemical waste or oil directly from the site.
- To avoid improper handling or storage of oil drum on site.