

LIST OF FIGURES

Figure 1.2.1	Sg. Kemaman Catchment Configuration	1 – 6
Figure 1.2.2	Project area at Sg Kemaman basin	1 – 7
Figure 1.2.3	The Drainage and Flood mitigation proposed for Chukai town in the year 2003	1 – 8
Figure 1.3.1	Project Conceptual Plan	1 – 10
Figure 1.4.1	Project location in the state of Terengganu	1 – 12
Figure 1.4.2	Project location and mukims at Sg. Kemaman Basin	1 – 13
Figure 1.4.3	Project location and the boundary	1 – 14
Figure 1.4.4	Project location and the boundary	1 – 15
Figure 1.4.5	Floodway location with 5 km radius	1 – 16
Figure 1.6.1	Location of Environmentally Sensitive Receptors (ESR)	1 – 22
Figure 2.3.1	Project conceptual plan	2 – 5
Figure 2.6.1	Schematic boundary for the proposed project	2 – 11
Figure 2.6.2	Floodway corridor within 5km radius	2 – 12
Figure 2.6.3	Schematic extend with sensitive receptors in the project sites	2 – 14
Figure 3.2.1	Inundated areas during 1972 and 1983 floods	3 – 8
Figure 3.2.2	Flood Flow Pattern of the Project Area	3 – 9
Figure 3.2.3	Flood at a spur road in 2012	3 – 10
Figure 3.2.4	Flooded area at Chukai and other areas in 2013	3 – 10
Figure 3.2.5	Flooded area at Chukai and other areas in 2014	3 – 11
Figure 3.2.6	Flood prone areas at Sg. Kemaman	3 – 12
Figure 3.2.7	Flood prone areas at Sg. Chukai	3 – 13
Figure 3.3.1	50 ARI – Without the proposed flood mitigation components	3 – 15
Figure 3.3.2	50 ARI – With the proposed flood mitigation components	3 – 15
Figure 4.3.1	First Floodway option in the Drainage Master Plan 1996	4 – 6
Figure 4.3.2	Second Floodway option in the Detailed Design	4 – 7

Master Plan 2003		
Figure 4.3.3	Both First and Second Floodway Options in 2003	4 – 8
Figure 4.3.4	Third and Final Option proposed for the current project	4 – 9
Figure 5.4.1	Project Key Plan	5 – 3
Figure 5.5.1	Floodway key plan	5 – 9
Figure 5.6.1	Sg Kemaman Bunds Key Plan	5 – 14
Figure 5.7.1	Binjai Bund Key Plan	5 – 16
Figure 5.8.1	Flood detention pond No. 1	5 – 17
Figure 5.8.2	Flood detention pond no. 2	5 – 18
Figure 5.8.3	On-going activities related to the proposed project (PLSB)	5 – 19
Figure 5.9.1	Locations of Burrow Pits and Dump Sites	5 – 24
Figure 6.2.1	Topography of the project area	6 – 3
Figure 6.2.2	River contour within Sg. Kemaman Basin from JUPEM	6 – 4
Figure 6.2.3	Topographical map for Sg. Kemaman basin	6 – 5
Figure 6.2.4	IfSAR data for Sg. Kemaman basin	6 – 6
Figure 6.2.5	Topography of the floodway corridor	6 – 7
Figure 6.3.1	Geological map of the study area	6 – 12
Figure 6.3.2	Soil map of the study area	6 – 13
Figure 6.3.3	Hydrologic map of the study area	6 – 14
Figure 6.3.4	Hydrologic soil groups map within Sg. Kemaman basin	6 – 15
Figure 6.3.5	Borehole locations at the study area	6 – 17
Figure 6.3.6	Location of surface soil identification test	6 – 18
Figure 6.3.7	Location of infiltration test	6 – 19
Figure 6.3.8	Sub-surface soil strata from few selected boreholes	6 – 21
Figure 6.3.9	Subsurface profile of bund along the left bank of Sg. Kemaman	6 – 23
Figure 6.3.10	Subsurface profile of bund along the right bank of Sg. Kemaman	6 – 24
Figure 6.3.11	Subsurface profile along bund through Binjai Swamp	6 – 25

Figure 6.3.12	Subsurface profile at bridge locations	6 – 26
Figure 6.3.13	Groundwater table data monitored in 8 boreholes	6 – 27
Figure 6.4.1	Sg. Kemaman River basin with Sg Chukai sub-catchment	6 – 29
Figure 6.4.2	Zoning of sub catchments within Sg. Kemaman River basin	6 – 30
Figure 6.4.3	Hydrologic Soil Groups Map within Sg. Kemaman basin	6 – 31
Figure 6.4.4	Close up view of Sg. Sg. Chukai sub-basin	6 – 32
Figure 6.4.5	Longitudinal profile of Sg. Kemaman and Sg. Chukai	6 – 33
Figure 6.4.6	Sg. Chukai from upstream to downstream	6 – 34
Figure 6.4.7	Sg. Kemaman from upstream of water intake point to estuary	6 – 35
Figure 6.4.8	Layout of proposed drainage masterplan in 1996	6 – 38
Figure 6.4.9	Main drainage layout designed and/or constructed	6 – 39
Figure 6.4.10	Hydrological Stations in Kemaman area	6 – 40
Figure 6.4.11	Sg. Kemaman Cross Section at Jambatan Air Putih (Station 4232401)	6 – 43
Figure 6.4.12	Flood monitoring stations in Sg Kemaman and at Sg. Chukai	6 – 43
Figure 6.4.13	Inundated areas during 1972 and 1983 floods	6 – 45
Figure 6.4.14	Flood flow pattern for project area	6 – 46
Figure 6.4.15	Flooded area on 2014	6 – 47
Figure 6.4.16	Location of water intake and water treatment plants at Sg. Kemaman	6 – 49
Figure 6.4.17	Location of existing water intake and treatment plant at Sg. Kemaman near Kg Sg. Pinang	6 – 50
Figure 6.4.18	Water intake and water treatment plants at Sg. Kemaman near Kg Sg. Pinang	6 – 51
Figure 6.4.19	Location of the irrigation scheme in the Sg. Kemaman basin	6 – 52
Figures 6.4.20	Fishery activities upstream to downstream at Sg. Chukai	6 – 56
Figure 6.4.21	Fishery activities at Sg. Kemaman (s.s) upstream near Kg. Sg. Pinang to downstream estuary	6 – 57

Figure 6.4.22	Sand mining upstream to downstream at Sg Kemaman (s.s)	6 – 60
Figure 6.4.23	Some shipyard facilities at the estuary of Sg. Kemaman	6 – 63
Figure 6.5.1	Water quality monitoring stations at Tasik Bungkus, Sg. Bungkus and Sg. Chukai	6 – 67
Figure 6.5.2	Water quality monitoring stations at Sg. Kemaman (s.s)	6 – 68
Figure 6.5.3	Water sampling and in-situ measurement at the sampling stations at Sg. Chukai on 22nd July, 2018	6 – 69
Figure 6.5.4	Water sampling and in-situ measurement at sampling stations at Sg. Chukai and Sg. Kemaman (s.s) on 22nd July, 2018	6 – 70
Figure 6.5.5	Pollution Inventory map for Sg. Kemaman basin	6 – 72
Figure 6.5.6	DOE Water Quality sampling stations	6 – 73
Figure 6.5.7(a)	Baseline water quality at various stations	6 – 78
Figure 6.5.7(b)	Baseline water quality at various stations	6 – 79
Figure 6.5.7(c)	Baseline water quality at various stations	6 – 80
Figure 6.5.8	Water Quality Index (WQI) at each stations	6 – 82
Figure 6.6.1	Mean Monthly (24-Hours) Temperature (°C) from January 2013 – December 2017 at Kuantan Station	6 – 90
Figure 6.6.2	Mean Monthly & Annual Rainfall (mm) recorded between January 2013 – December 2017 at Kuantan Station	6 – 90
Figure 6.6.3	Mean Monthly (24-Hours) & Annual Rain days recorded between January 2013 – December 2017 at Kuantan Station	6 – 91
Figure 6.6.4	Mean Monthly (24-Hours) Relative Humidity, (%) recorded between January 2013 – December 2017 at Kuantan Station	6 – 91
Figure 6.6.5	Mean Monthly (daily) Evaporation, (mm) between January 2013 – December 2017 at Kuantan Station	6 – 92
Figure 6.6.6	Seasonal Wind Summary (Annual) 2013-2017 at Kuantan Station	6 – 92
Figure 6.7.1	Air quality monitoring stations at the project corridor	6 – 95
Figure 6.7.2	Air quality monitoring activity at the stations	6 – 96
Figure 6.7.3	24-hour Wind rose summary during air quality monitoring at the various stations	6 – 99

Figure 6.7.4	Baseline air quality at the project boundary	6 – 101
Figure 6.8.1	Noise monitoring stations at the project boundary	6 – 104
Figure 6.8.2	Noise monitoring at six (6) locations at the project boundary	6 – 105
Figure 6.8.3 (a)	Existing baseline noise level at stations N1 and N2 during Day time and Night time at the project alignment	6 – 108
Figure 6.8.3 (b)	Existing baseline noise level at stations N3 and N4 during Day time and Night time at the project alignment	6 – 109
Figure 6.8.3 (c)	Existing baseline noise level at stations N5 and N6 during Day time and Night time at the project alignment	6 – 110
Figure 6.8.4	Average noise level (day & night) within the project boundary	6 – 111
Figure 6.9.1	Vibration monitoring stations at the project site	6 – 114
Figure 6.9.2	Vibration monitoring at the stations within the project boundary	6 – 115
Figure 6.9.3 (a)	Baseline vibration level at Stations V1 and V2	6 – 118
Figure 6.9.3 (b)	Baseline vibration level at Stations V3 and V4	6 – 119
Figure 6.10.1	Ecologically sensitive habitats within the project boundary	6 – 121
Figure 6.10.2	Forest reserves within Sg. Kemaman basin	6 – 123
Figure 6.10.3	Bukit Kambing, Bukit Sai and Kuala Kemaman Forest Reserves	6 – 124
Figure 6.10.4	Views of Forest Reserves in the project area	6 – 125
Figure 6.10.5	Tasik Bungkus and Binjai Swamp (Tok Kari Swamp) in the project area	6 – 127
Figure 6.10.6	Close up view of Tasik Bungkus and Sg Bungkus	6 – 128
Figure 6.10.7	Sg Bungkus before confluence with Sg Ibok to form Sg Chukai	6 – 128
Figure 6.10.8	Glimpses of Tasik Bungkus wetland and its habitats.	6 – 129
Figure 6.10.9	Some of the flora in the Tasik Bungkus wetland	6 – 130
Figure 6.10.10(a)	Sg. Chukai and its riparian zones.	6 – 132
Figure 6.10.10 (b)	Sg. Kemaman and its riparian zones	6 – 132
Figure 6.10.11	Sg. Chukai and its riparian zones from upstream to estuary	6 – 133

Figure 6.10.12	Some of the riparian flora at Sg. Chukai	6 – 134
Figure 6.10.13	Sg. Kemaman and its riparian zones from upstream to estuary	6 – 135
Figure 6.10.14	Some riparian flora at Sg Kemaman	6 – 136
Figure 6.10.15	Riverine mangrove at Sg Chukai	6 – 139
Figure 6.10.16	Distribution pattern of mangrove at estuary of Sg Chukai and Sg Kemaman	6 – 140
Figure 6.10.17	Estuarine mangroves at Sg. Chukai and Sg Kemaman	6 – 141
Figure 6.10.18	Riverine mangrove distribution at Sg. Chukai catchment	6 – 142
Figure 6.10.19	Mangroves at Sg. Chukai and Sg. Kemaman	6 – 143
Figure 6.10.20	Some riverine and estuarine mangrove flora	6 – 144
Figure 6.10.21	Paddy fields across the floodway corridor	6 – 146
Figure 6.10.22	Some agricultural activities	6 – 147
Figure 6.11.1	Some tree flora at the floodplain	6 – 152
Figure 6.11.2	Some shrubs at the floodplain	6 – 153
Figure 6.11.3	Some climbers/creepers at the floodplain	6 – 154
Figure 6.11.4	Some herbaceous plants in the floodplain	6 – 155
Figure 6.11.5	Some herbaceous plants in the floodplain	6 – 156
Figure 6.12.1	IUCN's Red List species conservation categories hierarchy	6 – 164
Figure 6.12.2	Area of Fauna study at the project locations	6 – 166
Figure 6.12.3	White-handed Gibbon, which was recorded at the proposed floodway alignment, is the most critical mammal requiring sizeable and intact forests.	6 – 173
Figure 6.12.4	Mammals photographed at the project site	6 – 174
Figure 6.12.5(a)	Birds photographed at the project site	6 – 175
Figure 6.12.5(b)	Birds photographed at the project site	6 – 176
Figure 6.12.5(c)	Birds photographed at the project site	6 – 177
Figure 6.12.6	Reptiles photographed from the project site	6 – 177
Figure 6.12.7	Amphibians photographed from the project site	6 – 178
Figure 6.12.8	River Terrapin (Tuntung) – critically endangered wildlife in Malaysia	6 – 181
Figure 6.13.1	The sampling locations for aquatic organism	6 – 199

Figure 6.13.2	Some fish species in Sg. Kemaman from upstream to downstream	6 – 205
Figure 6.13.2 (contd)	Some fish species in Sg. Kemaman from upstream to downstream	6 – 206
Figure 6.13.3	Some fish species in Sg. Chukai from upstream to downstream	6 – 207
Figure 6.13.4	Some fish species in Sg. Jabor	6 – 208
Figure 6.13.5	Some fish species in Sg. Ibok of Sg. Chukai	6 – 208
Figure 6.13.6	Species composition of firefly display trees found along Chukai River	6 – 211
Figure 6.13.7	Sg. Yak Yah (Sg Chukai) fireflies and display trees	6 – 212
Figure 6.14.1	Planning block for Kemaman District	6 – 215
Figure 6.14.2	Land use of Kemaman District in 2002	6 – 216
Figure 6.14.3	Current land use of Kemaman District (2017)	6 – 217
Figure 6.14.4	Current land use of Teluk Kalung (2017)	6 – 220
Figure 6.14.5	Current land use of Banggul (2017)	6 – 220
Figure 6.14.6	Existing development within 5km radius of the project alignment	6 – 221
Figure 6.14.7	Natural disaster risk area management in Terengganu	6 – 222
Figure 6.15.1	Project boundary of various components	6 – 229
Figure 6.15.2	Five (5) km radius from the floodway alignment	6 – 230
Figure 6.15.3	Locations of the Villages within 5km radius from the proposed project site	6 – 231
Figure 6.15.4	Sampling locations with photos of interview session held with the fishermen, stakeholders and residents	6 – 235
Figure 6.15.5	Aquaculture and Fishery activities at Sg. Chukai	6 – 236
Figure 6.16.1	Communicable diseases reported in PKD Kemaman, 2013-2017	6 – 253
Figure 6.16.2	Vector-borne and zoonotic diseases reported in PKD Kemaman, 2013-2017	6 – 253
Figure 6.16.3	Tasik Bungkus wetland	6 – 256
Figure 6.16.4	Warning sign at Tasik Bungkus on mosquitos related infectious disease	6 – 256
Figure 6.17.1	Road Network around the project area	6 – 261
Figure 6.17.2	Glimpses of infrastructure at the project area	6 – 262

Figure 6.17.3	Glimpses of infrastructure at the project area	6 – 263
Figure 7.5.2.1	Construction Phases for Floodway	7 – 13
Figure 7.5.2.2	Construction Phases for Sg. Kemaman Bund	7 – 14
Figure 7.5.2.3	Construction Phases for Binjai Bund	7 – 15
Figure 7.5.2.4	The Soil Types for the Project site	7 – 18
Figure 7.5.2.5	The K factor for Block 1 (a)	7 – 20
Figure 7.5.2.6	The K factor for Block 1 (b)	7 – 20
Figure 7.5.3.1	Fragmentation, forest loss and degradation of Kuala Kemaman Forest Reserve. Aerial view based on Google Earth's image dated 9th July 2016	7 – 33
Figure 7.5.3.2	Condition of forest and wetland in and around project boundary	7 – 34
Figure 7.5.3.3	Potential and common Roadkills in the region	7 – 35
Figure 7.5.4.1	Locations of villages within 5km radius of the project alignment	7 – 39
Figure 7.5.4.2	Interview session with the Fishermen, stakeholders and residents	7 – 40
Figure 7.5.4.3(a)	Public Dialogue on 20th September, 2018	7 – 51
Figure 7.5.4.3(b)	Public Dialogue on 20th September, 2018	7 – 52
Figure 7.5.6.1(a)	Existing access road to the project area, particularly to the floodway corridor	7 – 59
Figure 7.5.6.1(b)	Existing access roads to the project area, particularly to the floodway corridor	7 – 60
Figure 7.6.2.1	Flood prone areas at Sg. Kemaman	7 – 69
Figure 7.6.2.2	Flood prone areas at Sg. Chukai	7 – 70
Figure 7.6.2.3	50 ARI – Without the proposed flood mitigation components	7 – 71
Figure 7.6.2.4	50 ARI – With the proposed flood mitigation components	7 – 72
Figure 7.6.4.1	Process flow chart of salinity modelling using InfoWorks RS	7 – 75
Figure 7.6.4.2	Hydrodynamic model of Sg Kemaman and Sg Chukai	7 – 75
Figure 7.6.4.3	Sample of Sungai Kemaman cross section at CH 48	7 – 76
Figure 7.6.4.4	Sample of cross section downstream floodway cross-section at CH 10300	7 – 76

Figure 7.6.4.5	Tidal generated from hydraulic simulation at Kemaman Standard Port	7 – 77
Figure 7.6.4.6	Salinity (ppt) reading for Chukai River Basin	7 – 77
Figure 7.6.4.7	Hydrodynamic salinity model using InfoWorks RS (with proposed floodway)	7 – 78
Figure 7.6.4.8	Comparison of observed and simulated water level at Jetty Mini Zoo (Upstream of Sungai Chukai) from 24 October to 8 November 2013	7 – 78
Figure 7.6.4.9	Comparison of observed and simulated data of salt concentration before river realignment at Jetty Mini Zoo	7 – 79
Figure 7.6.4.10	Comparison of observed and simulated data of salt concentration after river realignment at Jeti Bukit Tinggi	7 – 79
Figure 7.6.4.11	Comparison of normal flow (green line) and 50-year ARI (blue line) with salt concentration	7 – 80
Figure 7.6.5.1	Sediment and clearing of riparian zone major threat to Tuntung	7 – 84
Figure 7.6.5.2	Location of reported River Terrapin's nesting grounds, hatchery, rivers banks unaffected and possible new river banks due to the proposed floodway serving as foraging & nesting grounds for terrapins & turtles	7 – 85
Figure 7.6.5.3	Locations and types of display trees in which adults of both <i>P. tener</i> and <i>P. bearni</i> collected	7 – 89
Figure 7.6.5.4	Map showing the adult firefly distribution along the river. <i>Pteroptyx tener</i> can be found at the upper reaches of the river while <i>Pteroptyx bearni</i> is found further downstream. The circled regions are areas of the river that were not surveyed because low tides made access difficult	7 – 90
Figure 7.6.5.5	Species composition of firefly display trees found along Chukai River. The four realignments of the river are shown and labelled 1-4. Red dotted circle: river loop bypassed by first realignment (1); blue dotted circle: river loop bypassed by second realignment (2); grey dotted circle: river loop near the fourth realignment (4); brown dashed ellipses: areas not surveyed due to access problems at low tide	7 – 91
Figure 7.6.5.6	Display trees along Chukai River. Upstream display trees were mainly dominated by (a) putat and a small patch of (b) berembang, while the display trees along the original river loop bypassed by the first realignment consists of (c) bebaru, a small	7 – 92

	patch of (d) api-api, and some mixed vegetation	
Figure 7.6.5.7	The section of the river near the third realignment was narrow with nypa lining both sides of the riverbank. During low tide, the boat was unable to enter, thus firefly surveys were not carried out at these parts of the river	7 – 92
Figure 7.6.5.8	Downstream trees on which the fireflies displayed were mainly (a) nypa, downstream of the second realignment, and (b) nyerih, near the fourth realignment. Further downstream the fireflies displayed on (c) api-api and (d) bakau kurap	7 – 93
Figure 7.6.5.9	Map showing the sampling sites and occurrence of firefly larvae and snails. Note that sites 10, 11, 14, and 17–21 were not sampled for larvae at night due to access problems, though they were sampled for snails in the day	7 – 95
Figure 8.4.1.1	Erosion and Sediment Control Practices	8 – 11
Figure 8.4.1.2 (a)	Examples of Construction Sequence Scheduling	8 – 17
Figure 8.4.1.2 (b)	Examples of Construction Sequence Scheduling	8 – 18
Figure 8.4.1.3	BMPs for Erosion and Sediment Control at the project sites	8 – 19
Figure 8.4.1.4	Temporary Earth drain	8 – 20
Figure 8.4.1.5	Sediment Control Process	8 – 20
Figure 8.4.1.6	Runoff Control Process	8 – 21
Figure 8.4.1.7	Soil Stabilization Control Process	8 – 22
Figure 8.4.2.1	Bifurcation and Fragmentation of Kuala Kemaman Forest Reserve	8 – 25
Figure 8.4.2.2	Potential Peat Swamp Forest /wetland for gazettement as additional Forest Reserve to replace the forest reserve lost due to the proposed floodway, and also transmission lines, railway track, ECRL track, sanitary landfill, etc	8 – 26
Figure 8.4.2.3	Existing better designed and managed drainage infrastructure at the project area	8 – 32
Figure 8.4.2.4	Example of peat fire in Malaysia at Raja Musang, Selangor in 2013	8 – 32
Figure 8.4.2.5	Open burning is strictly prohibited by Department of Environment (DOE). Any accidental or un-intention fire at peat swamp forest, especially dried peat would last for long time underground	8 – 33

Figure 8.4.2.6	A sample signage along the road to remind motorists to be alert and avoid hitting animals and to report if there is roadkill	8 – 33
Figure 8.4.2.7	An example of trap used for disturbing Long-tailed Macaques for relocation by Jabatan PERHILITAN	8 – 34
Figure 8.4.2.8	Sample of No Hunting etc. signboard to be posted at the site prior to the commencement of the proposed project works	8 – 34
Figure 8.4.2.9	Protection of Critically Endangered River Terrapin of Malaysia by Turtle Conservation Society (TCS)	8 – 35
Figure 8.5.2.1	50 ARI - Without the proposed flood mitigation project	8 – 47
Figure 8.5.2.2	50 ARI - With the proposed flood mitigation project	8 – 47
Figure 8.5.5.1	Existing and future fragmentation of Kuala Kemaman Forest Reserve	8 – 51
Figure 8.5.6.1	Potential Forest Area for Gazettment as Forest Reserve as part of Kuala Kemaman Forest Reserve, as replacement for lost forest due to floodway, transmission line, ECRL, Railway Track, Landfills, etc	8 – 53
Figure 8.5.6.2	Rehabilitation of peat swamp forest is possible by maintaining water level and preventing peat fire and human encroachment	8 – 54
Figure 8.5.8.1	Maintaining riparian vegetation with less pollution, the fireflies colonies and the host/display trees would flourish in the region increasing fireflies colonies and ecotourism	8 – 56
Figure 8.5.9.1	Existing threats to survival of river terrapin (tuntung) at Sg. Kemaman basin	8 – 58
Figure 8.5.12.1	Sg Bungkus catchment and development around the Tasik Bungkus	8 – 62
Figure 8.5.12.2	Bifurcated and fragmented Kuala Kemaman Forest Reserve	8 – 63
Figure 8.5.12.3	Development activities north of Kuala Kemaman Forest Reserve	8 – 64
Figure 8.5.12.4	Development and encroachment affecting riverine mangroves in Sg. Chukai	8 – 65
Figure 9.2.1	Overall Framework of the EMP	9 – 3
Figure 9.6.1	Conceptual Organization Structure for EMP implementation for the Project	9 – 16
Figure 9.7.1(a)	Locations of river water quality monitoring stations	9 – 20

Figure 9.7.1(b)	Locations of river water quality monitoring stations	9 – 21
Figure 9.7.2	Locations of air quality monitoring stations	9 – 23
Figure 9.7.3	Locations of noise monitoring stations	9 – 25
Figure 9.7.4	Locations of vibration monitoring stations	9 – 27
Figure 9.10.1	Project Activities for the project	9 – 58
Figure 9.10.2	Environmental Sensitive Areas	9 – 59
Figure 9.10.3	Major sequences for the project activities	9 – 61
Figure 9.10.4	Construction Phases for Floodway	9 – 62
Figure 9.10.5	Construction Phases for Sg. Kemaman Bund	9 – 63
Figure 9.10.6	Construction Phases for Binjai Bund	9 – 64
Figure 9.10.7	The Soil Types for Project site	9 – 67
Figure 9.10.8	The K factor for Block 1 (a)	9 – 69
Figure 9.10.9	The K factor for Block 1 (b)	9 – 69
Figure 9.10.10	Typical Design of Silt Fence	9 – 80
Figure 9.10.11	Sediment Basin	9 – 82
Figure 9.10.12	Temporary Earth drain	9 – 86
Figure 9.10.13	Sediment Control Process	9 – 86
Figure 9.10.14	LDP2M2 Plan	9 – 91