Annex B

Monitoring Results











Table B1: Impact Water Quality Monitoring for Dredging Activities during Mid-ebb Tide for 24 May 2010

Station	Downstream (Impact)					
Time (hh:mm)	11:33-12:20					
Monitoring Depth (m)	Depth Average Surface and Middle Bottom					
D.O. (mg/L)	N/A 6.28 5					
Turbidity (NTU)	6.72 N/A N					
SS (mg/L)	7.70 N/A N/					
Remarks	Dredging works were observed.					

Station	Ups	Upstream (Reference)					
Time (hh:mm)		11:08-11:29					
Monitoring Depth (m)	Depth Average	Depth Average Surface and Middle Bott					
D.O. (mg/L)	N/A	6.01	5.56				
Turbidity (NTU)	10.92	N/A	N/A				
SS (mg/L)	12.83	N/A	N/A				
Remarks	Dredging works were observed.						

Station		Ma Wan						
Time (hh:mm)		08:54-09:00						
Monitoring Depth (m)	Depth Average	Depth Average Surface and Middle Bo						
D.O. (mg/L)	N/A	6.01	5.64					
Turbidity (NTU)	3.42	N/A	N/A					
SS (mg/L)	5.00	N/A	N/A					
Remarks								

Compliance with Action and Limit Levels

		Action Level		Limit Level			Compliance	
	Impact		Mean Value at		Mean Value at Impact	Mean Value at	with Action	Compliance
Parameter	Stations	Comparison between I and R ^(a)	Impact Stations	Comparison between I and R ^(a)	Stations	Reference Stations	level	with Limit Level
DO (Bottom)	< 2.96	R significantly greater than I (t-test, p < 0.05)	< 2.00	R significantly greater than I (t-test, p < 0.05)	5.82	5.56	Y	Y
DO (Surface and Mid Depth)	< 3.76	R significantly greater than I (t-test, p < 0.05)	< 3.11	R significantly greater than I (t-test, $p < 0.05$)	6.28	6.01	Y	Y
Turbidity (Depth-averaged)	> 28.14	$I \ge 1.2 R$ (13.10)	> 38.32	I≥1.3 R (14.19)	6.72	10.92	Y	Y
SS (Depth-averaged)	> 37.88	$I \ge 1.2 R$ (15.40)	> 61.92	I≥1.3 R (16.68)	7.70	12.83	Y	Y

Table B2: Impact Water Quality Monitoring for Dredging Activities during Mid-flood Tide for 24 May 2010

Station	Downstream (Impact)					
Time (hh:mm)	15:21 - 16:07					
Monitoring Depth (m)	Depth Average Surface and Middle Bottom					
D.O. (mg/L)	N/A 6.06 5.8					
Turbidity (NTU)	8.22	N/A	N/A			
SS (mg/L)	7.60 N/A N/					
Remarks	Dredging works were observed.					

Station	Upstream (Reference)							
Time (hh:mm)		16:12 - 16:28						
Monitoring Depth (m)	Depth Average	Depth Average Surface and Middle Bottor						
D.O. (mg/L)	N/A	6.15						
Turbidity (NTU)	10.56	N/A						
SS (mg/L)	9.58	N/A						
Remarks	Dredging works were observed.							

Station		Ma Wan					
Time (hh:mm)		17:34 - 17:40					
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom				
D.O. (mg/L)	N/A	6.07	5.79				
Turbidity (NTU)	5.27	N/A	N/A				
SS (mg/L)	5.83	N/A	N/A				
Remarks							

Compliance with Action and Limit Levels

		Action Level		Limit Level				Compliance		
	Mean Value at				Mean Value at		Mean Value at Impact	Mean Value at	with Action	Compliance
Parameter	Impact Stations	Comparison between	n I and R ^(a)		Impact Stations	Comparison between I and R ^(a)	Stations	Reference Stations	level	with Limit Level
DO (Bottom)	< 2.96	R significantly greate	er than I (t-te	st, p < 0.05)	< 2.00	R significantly greater than I (t-test, p < 0.05)	5.80	6.15	Y	Y
DO (Surface and Mid Depth)	< 3.76	R significantly greate	er than I (t-te	st, p < 0.05)	< 3.11	R significantly greater than I (t-test, p < 0.05)	6.06	6.88	Y	Y
Turbidity (Depth-averaged)	> 28.14	I ≥ 1.2 R	(12.0	67)	> 38.32	I≥1.3 R (13.72)	8.22	10.56	Y	Y
SS (Depth-averaged)	> 37.88	I ≥ 1.2 R	(11.	50)	> 61.92	$I \ge 1.3 R$ (12.46)	7.60	9.58	Y	Y

Note: (a) I = Impact; R = Reference Stations