

Annex B1 a: Impact Water Quality Monitoring for Dredging Activities during Mid-ebb Tide for 8 October 2009

Station	Downstream (Impact)		
Time (hh:mm)	13:51-15:19		
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom
D.O. (mg/L)	N/A	5.45	5.38
Turbidity (NTU)	11.84	N/A	N/A
SS (mg/L)	16.03	N/A	N/A
Remarks	Dredging works were observed.		

Station	Upstream (Reference)		
Time (hh:mm)	15:42-16:09		
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom
D.O. (mg/L)	N/A	5.56	5.5
Turbidity (NTU)	21.21	N/A	N/A
SS (mg/L)	27.67	N/A	N/A
Remarks	Dredging works were observed.		

Station	Ma Wan		
Time (hh:mm)	17:11-17:14		
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom
D.O. (mg/L)	N/A	5.04	4.94
Turbidity (NTU)	11.43	N/A	N/A
SS (mg/L)	16.17	N/A	N/A
Remarks			

Compliance with Action and Limit Levels

Parameter	Action Level		Limit Level		Mean Value at Impact Stations	Mean Value at Reference Stations	Compliance with Action level	Compliance with Limit Level
	Impact Stations	Comparison between I and R ^(a)	Mean Value at Impact Stations	Comparison between I and R ^(a)				
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)	5.38	5.5	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)	5.45	5.56	Y	Y
Turbidity (Depth-averaged)	> 28.14	I ≥ 1.2 R (25.45)	> 38.32	I ≥ 1.3 R (27.57)	11.84	21.21	Y	Y
SS (Depth-averaged)	> 37.88	I ≥ 1.2 R (33.20)	> 61.92	I ≥ 1.3 R (35.97)	16.03	27.67	Y	Y

Annex B1 b: Impact Water Quality Monitoring for Dredging Activities during Mid-flood Tide for 8 October 2009

Station	Downstream (Impact)		
Time (hh:mm)	07:50 - 10:54		
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom
D.O. (mg/L)	N/A	5.12	5.14
Turbidity (NTU)	18.23	N/A	N/A
SS (mg/L)	22.27	N/A	N/A
Remarks	Dredging works were observed.		

Station	Upstream (Reference)		
Time (hh:mm)	07:50 - 10:54		
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom
D.O. (mg/L)	N/A	5.42	5.4
Turbidity (NTU)	31.03	N/A	N/A
SS (mg/L)	40.67	N/A	N/A
Remarks	Dredging works were observed.		

Station	Ma Wan		
Time (hh:mm)	07:50 - 10:54		
Monitoring Depth (m)	Depth Average	Surface and Middle	Bottom
D.O. (mg/L)	N/A	4.88	4.88
Turbidity (NTU)	18.17	N/A	N/A
SS (mg/L)	23.00	N/A	N/A
Remarks			

Compliance with Action and Limit Levels

Parameter	Action Level		Limit Level		Mean Value at Impact Stations	Mean Value at Reference Stations	Compliance with Action level	Compliance with Limit Level
	Mean Value at Impact Stations	Comparison between I and R ^(a)	Mean Value at Impact Stations	Comparison between I and R ^(a)				
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)	5.14	5.4	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)	5.12	5.42	Y	Y
Turbidity (Depth-averaged)	> 28.14	I ≥ 1.2 R (37.24)	> 38.32	I ≥ 1.3 R (40.34)	18.23	31.03	Y	Y
SS (Depth-averaged)	> 37.88	I ≥ 1.2 R (48.80)	> 61.92	I ≥ 1.3 R (52.87)	22.27	40.67	Y	Y

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