Table B1 Summary Table of DO, Turbidity and SS Levels Recorded between 24 and 30 September 2015

Sampling Date	Period (mg/L)		ng/L)	Average Turbidity	Average SS Level	
			Bottom	Surface and	Level	(mg/L)
2011/0/21	30171	D01		Mid Depth	(NTU)	
2014/9/24	Mid-Ebb	DS1	4.98	6.10	6.57	11.05
		DS2	4.94	6.53	5.52	6.75
		DS3	4.95	6.16	6.65	7.22
		DS4	5.06	6.05	4.72	4.85
		DS5	4.82	6.11	5.53	6.92
		US1	4.62	5.49	9.51	9.88
		US2	4.41	5.34	10.81	10.83
	MOTEL 1	MW1	5.01	5.79	3.32	4.18
	Mid-Flood	DS1	4.74	4.65	9.21	9.18
		DS2	5.19	4.50	16.50	6.93
		DS3	5.33	5.63	9.24	7.15
		DS4	5.13	6.55	7.37	7.20
		DS5	4.57	6.46	6.85	11.78
		US1	5.36	6.19	6.55	6.65
		US2	5.37	5.94	10.43	7.83
		MW1	5.07	7.03	6.00	8.08
2014/9/26	Mid-Ebb	DS1	5.19	5.65	27.41	23.85
		DS2	5.14	5.83	34.80	36.05
		DS3	5.32	6.03	18.11	21.48
		DS4	5.38	5.83	20.64	15.95
		DS5	5.42	5.93	20.12	21.93
		US1	5.21	6.07	8.65	7.67
		US2	5.07	5.88	11.97	12.40
		MW1	4.78	5.16	7.43	9.50
	Mid-Flood	DS1	5.55	5.53	15.55	22.17
		DS2	4.94	5.53	13.59	16.25
		DS3	5.13	5.55	12.36	21.73
		DS4	5.22	5.73	10.34	17.20
		DS5	5.35	5.75	8.98	12.55
		US1	5.21	5.70	37.11	24.52
		US2	5.38	5.76	18.74	19.12
		MW1	4.72	4.85	11.34	14.27
2015/9/28	Mid-Ebb	DS1	4.85	5.16	33.08	21.90
		DS2	4.91	5.12	31.16	24.98
		DS3	4.79	4.98	37.48	27.65
		DS4	4.71	4.96	55.58	20.30
		DS5	4.70	5.10	42.98	25.45
		US1	4.85	5.09	14.81	11.55
		US2	4.80	4.99	14.19	13.50
		MW1	4.47	4.56	6.88	9.57
	Mid-Flood	DS1	4.51	4.88	27.12	16.47
		DS2	4.43	4.73	45.45	29.25
		DS3	4.50	4.93	34.84	28.28
		DS4	4.45	4.83	28.73	22.42
		DS5	4.62	5.00	16.12	22.10
		US1	4.87	5.09	34.74	22.08
		US2	4.94	4.93	17.82	28.32
		MW1	4.41	4.45	13.05	29.08

Sampling	Tidal	Station	U	DO Levels	Average	Average SS
Date	Period		(mg/L) Bottom Surface and		Turbidity Level	Level (mg/L)
				Mid Depth	(NTU)	(
2015/9/30	Mid-Ebb	DS1	4.76	5.12	10.64	13.47
		DS2	4.76	5.14	14.14	13.93
		DS3	4.89	5.32	8.44	9.47
		DS4	4.61	5.04	11.41	17.03
		DS5	4.61	5.01	11.13	13.63
		US1	5.07	5.23	37.85	14.18
		US2	4.94	5.13	22.01	17.63
		MW1	4.75	4.96	7.61	10.92
	Mid-Flood	DS1	4.67	4.90	31.85	23.53
		DS2	4.65	4.86	27.39	20.35
		DS3	4.66	4.86	20.49	22.92
		DS4	4.62	4.84	23.92	18.43
		DS5	4.63	4.75	27.20	17.80
		US1	4.62	4.84	41.38	20.12
		US2	4.66	4.89	43.18	25.77
		MW1	4.74	4.82	14.60	16.30

Notes:

- 1. Please refer to Table C2 below for the Action and Limit Levels for dredging activities.
- 2. Cell shaded yellow indicated value exceeding the Action Level criteria.
- 3. Cell shaded red indicated value exceeding the Limit Level criteria.

Table B2 Action and Limit Levels of Water Quality for Dredging, Backfilling and Capping Activities at ESC CMPs

Parameter	Action Level	Limit Level		
Dissolved Oxygen (DO) (1)	Surface and Mid-depth (2)	Surface and Mid-depth (2)		
	5%-ile of baseline data for surface and	1%-ile of baseline data for surface and		
	middle layer = 3.76 mg L-1	middle layer = 3.11 mg L^{-1} (3)		
	and	and		
	Significantly less than the reference	Significantly less than the reference		
	stations mean DO (at the same tide of	stations mean DO (at the same tide of		
	the same day)	the same day)		
	Bottom	Bottom		
	5%-ile of baseline data for bottom	The average of the impact station		
	layers = 2.96 mg L-1	readings are <2 mg/L-1		
	and	and		
	Significantly less than the reference	Significantly less than the reference		
	stations mean DO (at the same tide of the same day)	stations mean DO (at the same tide of the same day)		
Depth-averaged Suspended	95%-ile of baseline data for depth	99%-ile of baseline data for depth		
Solids (SS) (4) (5)	average = 37.88 mg L-1	average = 61.92 mg L ⁻¹		
	and			
		and		
	120% of control station's SS at the same	130% of control station's SS at the same		
	tide of the same day	tide of the same day		
Depth-averaged Turbidity (Tby) (4) (5)	95%-ile of baseline data = 28.14 NTU	99%-ile of baseline data = 38.32 NTU		
· •/	and	and		
	120% of control station's Tby at the same tide of the same day	130% of control station's Tby at the same tide of the same day		

Notes:

- (1) For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
- (2) The Action and Limit Levels for DO for Surface & Middle layers were calculated from the combined pool of baseline surface layer data and baseline middle layer data.
- (3) Given the Action Level for DO for Surface & Middle layers has already been lower than 4 mg L-1, it is proposed to set the Limit Level at 3.11 mg L-1 which is the first percentile of the baseline data.
- (4) "Depth-averaged" is calculated by taking the arithmetic means of reading of all three depths.
- (5) For turbidity and SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.

Table B3 Action and Limit Levels of Water Quality for Dredging, Backfilling and Capping Activities for SB CMPs

Parameter	Action Level	Limit Level		
Dissolved Oxygen (DO) (1)	Surface and Mid-depth (2) The average of the impact, WSR 45C and WSR 46 station readings are < 5%-ile of baseline data for surface and middle layer = 4.32 mg L-1	Surface and Mid-depth (2) The average of the impact, WSR 45C and WSR 46 station readings are < 4 mg L-1		
	and Significantly less than the reference stations mean DO (at the same tide of the same day)	and Significantly less than the reference stations mean DO (at the same tide of the same day)		
	Bottom The average of the impact, WSR 45C and WSR 46 station readings are < 5%-ile of baseline data for bottom layers = 3.12 mg L-1	Bottom The average of the impact station, WSR 45C and WSR 46 readings are < 2 mg L-1 and		
	and Significantly less than the reference stations mean DO (at the same tide of the same day)	Significantly less than the reference stations mean DO (at the same tide of the same day)		
Depth-averaged Suspended Solids (SS) (3) (4)	The average of the impact, WSR 45C and WSR 46 station readings are > 95%-ile of baseline data for depth average = 21.60 mg L-1	The average of the impact, WSR 45C and WSR 46 station readings are > 99%-ile of baseline data for depth average = 40.10 mg L-1		
	and	and		
	120% of control station's SS at the same tide of the same day	130% of control station's SS at the same tide of the same day		
Depth-averaged Turbidity (Tby) (3) (4)	The average of the impact, WSR 45C and WSR 46 station readings are > 95%-ile of baseline data = 25.04 NTU	The average of the impact, WSR 45C and WSR 46 station readings are > 99%-ile of baseline data = 32.68 NTU		
	and	and		
	120% of control station's Tby at the same tide of the same day	130% of control station's Tby at the same tide of the same day		

Notes:

- (1) For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
- (2) The Action and Limit Levels for DO for Surface & Middle layers were calculated from the combined pool of baseline surface layer data and baseline middle layer data.
- (3) "Depth-averaged" is calculated by taking the arithmetic means of reading of all three depths.
- (4) For turbidity and SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.

Table B4 Water Column Profiling Results for SB CMP 2 in September 2015

Stations	Temp	Salinity	Turbidity	Dissolved Oxygen		pН	Suspended Solids
	(°C)	(ppt)	(NTU)	(%)	(mg L-1)	(mg L-1)	(mg L-1)
WCP 1							_
(Downstream) WCP 2	26.78	26.59	13.09	64.10	4.42	7.74	10.08
(Upstream)	26.86	26.42	12.60	66.61	4.59	7.70	10.70
WQO (wet season)	N/A	23.85- 29.06#	N/A	N/A	>4	6.5-8.5	11.6

Note:

 $^{^{*}}$ Not exceeding 10% of natural ambient level which is the result obtained from the Reference Station. Cell shaded grey indicate value exceeding the WQO.