

Annex A1 - East of Sha Chau Environmental Monitoring and Audit Sampling Schedule for CMP IV (January 2012 - December 2013)

		2012												2013											
Tissue/ Whole Body Sampling		J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
Near-Pit Stations	INA		*																						
	INB		*																						
	Reference North		*																						
	TNA		*																						
	TNB		*																						
Reference South	TSA		*																						
	TSB		*																						
Demersal Trawling		J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
Near Pit Stations	INA 1-5		*	*																					
	INB 1-5		*	*																					
Reference North	TNA 1-5		*	*																					
	TNB 1-5		*	*																					
Reference South	TSA 1-5		*	*																					
	TSB 1-5		*	*																					
Capping		J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
<i>Ebb Tide</i>																									
Impact Station Downcurrent	IPE1		*				*	*				*	*		*	*			*	*			*	*	*
	IPE2		*				*	*				*	*		*	*			*	*			*	*	*
	IPE3		*				*	*				*	*		*	*			*	*			*	*	*
	IPE4		*				*	*				*	*		*	*			*	*			*	*	*
	PFC1		*				*	*				*	*		*	*			*	*			*	*	*
Intermediate Station Downcurrent	INE1		*				*	*				*	*		*	*			*	*			*	*	*
	INE2		*				*	*				*	*		*	*			*	*			*	*	*
	INE3		*				*	*				*	*		*	*			*	*			*	*	*
	INE4		*				*	*				*	*		*	*			*	*			*	*	*
	INE5		*				*	*				*	*		*	*			*	*			*	*	*
Reference Station Upcurrent	RFE1		*				*	*				*	*		*	*			*	*			*	*	*
	RFE2		*				*	*				*	*		*	*			*	*			*	*	*
	RFE3		*				*	*				*	*		*	*			*	*			*	*	*
	RFE4		*				*	*				*	*		*	*			*	*			*	*	*
	RFE5		*				*	*				*	*		*	*			*	*			*	*	*
<i>Flood Tide</i>																									
Impact Station Downcurrent	INF1		*				*	*				*	*		*	*			*	*			*	*	*
	PFC2		*				*	*				*	*		*	*			*	*			*	*	*
	INF3		*				*	*				*	*		*	*			*	*			*	*	*
Intermediate Station Downcurrent	IPF1		*				*	*				*	*		*	*			*	*			*	*	*
	IPF2		*				*	*				*	*		*	*			*	*			*	*	*
	IPF3		*				*	*				*	*		*	*			*	*			*	*	*
Reference Station Upcurrent	RFF1		*				*	*				*	*		*	*			*	*			*	*	*
	RFF2		*				*	*				*	*		*	*			*	*			*	*	*
	RFF3		*				*	*				*	*		*	*			*	*			*	*	*
Water Column Profiling		J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
Plume Stations	WCP1		*																						
	WCP2		*																						
Benthic Recolonisation Studies		J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
<i>Capped Contaminated Mud Pits III</i>																									
CPA	1 grab per station								*																
CPB	1 grab per station								*																
CPC	1 grab per station								*																
<i>Reference Stations</i>																									
RBA	1 grab per station								*																
RBB	1 grab per station								*																
RBC	1 grab per station								*																

*n = Number of replicates depends on field catch or parameters

Sampling completed
 Sampling to be completed

Pit Specific Sediment Chemistry Code		2012												2013					2014							
		J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J
Active-Pit	ESC-NPDA	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*						
	ESC-NPDB	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*						
Pit-Edge	ESC-NEDA	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*						
	ESC-NEDB	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*						
Near-Pit	ESC-NNDA	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*						
	ESC-NNDB	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*						

Cumulative Impact Sediment Chemistry		J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F
Near-field Stations	ESC-RNA	*					*		*				*	*					*		*						
	ESC-RNB	*					*		*				*	*					*		*						
Mid-field Stations	ESC-RMA	*					*		*				*	*					*		*						
	ESC-RMB	*					*		*				*	*					*		*						
Capped Pit Stations	ESC-RCA	*					*		*				*	*					*		*						
	ESC-RCB	*					*		*				*	*					*		*						
Far-Field Stations	ESC-RFA	*					*		*				*	*					*		*						
	ESC-RFB	*					*		*				*	*					*		*						
Ma Wan Station	MW1	*					*		*				*	*					*		*						



Sediment Toxicity Tests		J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F
Near-Field Stations	ESC-TDA	*							*					*						*		*					
	ESC-TDB	*							*					*						*		*					
Reference Stations	ESC-TRA	*							*					*						*		*					
	ESC-TRB	*							*					*						*		*					
Ma Wan Station	MW1	*							*					*						*		*					

Tissue/ Whole Body Sampling		J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F
Impact Stations	ESC-INA								*					*						*		*					
	ESC-INB								*					*						*		*					
Reference	ESC-TNA								*					*						*		*					
	ESC-TNB								*					*						*		*					
Ma Wan Station	ESC-TSA								*					*						*		*					
	ESC-TSB								*					*						*		*					

Demersal Trawling		J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F
Impact Stations	ESC-INA						*	*						*	*					*	*						
	ESC-INB						*	*						*	*					*	*						
Reference Stations	ESC-TNA						*	*						*	*					*	*						
	ESC-TNB						*	*						*	*					*	*						
Ma Wan Station	ESC-TSA						*	*						*	*					*	*						
	ESC-TSB						*	*						*	*					*	*						

Capping		J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F
<i>Ebb Tide</i>																											
Impact Station	ESC-IPE1																							*		*	
	ESC-IPE2																							*		*	
	ESC-IPE3																							*		*	
	ESC-IPE4																							*		*	
	ESC-IPE5																							*		*	
Intermediate Station	ESC-INE1																							*		*	
	ESC-INE2																							*		*	
	ESC-INE3																							*		*	
	ESC-INE4																							*		*	
	ESC-INE5																							*		*	
Reference Station	ESC-RFE1																							*		*	
	ESC-RFE2																							*		*	
	ESC-RFE3																							*		*	
	ESC-RFE4																							*		*	
	ESC-RFE5																							*		*	
Ma Wan Station	MW1																						*		*		
<i>Flood Tide</i>																											
Impact Station	ESC-IPF1																							*		*	
	ESC-IPF2																							*		*	
	ESC-IPF3																							*		*	
Intermediate Station	ESC-INF1																							*		*	
	ESC-INF2																							*		*	
	ESC-INF3																							*		*	
Reference Station	ESC-RFF1																							*		*	
	ESC-RFF2																							*		*	
	ESC-RFF3																							*		*	
Ma Wan Station	MW1																						*		*		

		2012												2013												2014	
Routine Water Quality Monitoring		J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F
<i>Ebb Tide</i>																											
Impact Station	ESC-IPE1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	ESC-IPE2	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	ESC-IPE3	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	ESC-IPE4	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	ESC-IPE5	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Intermediate Station	ESC-INE1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	ESC-INE2	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	ESC-INE3	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	ESC-INE4	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	ESC-INE5	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Reference Station	ESC-RFE1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	ESC-RFE2	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	ESC-RFE3	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	ESC-RFE4	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	ESC-RFE5	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Ma Wan Station	MW1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
<i>Flood Tide</i>																											
Impact Station	ESC-IPF1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	ESC-IPF2	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	ESC-IPF3	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Intermediate Station	ESC-INF1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
	ESC-INF2	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
	ESC-INF3	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
Reference Station	ESC-RFF1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
	ESC-RFF2	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
	ESC-RFF3	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
Ma Wan Station	MW1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
Water Column Profiling		J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F
Plume Stations	WCP1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	WCP2	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Benthic Recolonisation Studies		J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F
Capped Contaminated Mud Pits IVa-c																											
Reference Stations	ESC-CPA							*				*								*				*			
	ESC-CPB							*				*								*				*			
	ESC-CPC							*				*								*				*			
	ESC-RBA							*				*								*				*			
	ESC-RBB							*				*								*				*			
	ESC-RBC							*				*								*				*			
Impact Monitoring for Dredging		J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F
Upstream/Reference Stations	US1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	US2	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Downstream/Impact Stations	DS1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	DS2	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	DS3	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	DS4	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	DS5	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Ma Wan Station	MW1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		

 Sampling completed
 Sampling to be completed

Annex A3 - Environmental Monitoring and Audit Sampling Schedule for South of The Brothers (July 2012 - December 2017)

			2012				2013				2014				2015				2016				2017																																	
			J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
Cumulative Impact Sediment Chemistry																																																								
Near-field Stations	SB-RNA	4 times per year																																																						
	SB-RNB	4 times per year																																																						
Mid-field Stations	SB-RMA	4 times per year																																																						
	SB-RMB	4 times per year																																																						
Far-Field Stations	SB-RFA	4 times per year																																																						
	SB-RFB	4 times per year																																																						
Capped Pit Stations	SB-RCA	4 times per year																																																						
	SB-RCB	4 times per year																																																						
Sensitive Receiver Stations	MW1	4 times per year																																																						
	THB1	4 times per year																																																						
	THB2	4 times per year																																																						
Sediment Toxicity Tests																																																								
SB CMP 1 Active																																																								
Reference	SB-TRA	2 times per year																																																						
	SB-TRB	2 times per year																																																						
Near-Field	SB-TAA	2 times per year																																																						
	SB-TAB	2 times per year																																																						
Sensitive Receiver Stations	MW1	2 times per year																																																						
	THB1	2 times per year																																																						
	THB2	2 times per year																																																						
SB CMP 2 Active																																																								
Reference	SB-TRA	2 times per year																																																						
	SB-TRB	2 times per year																																																						
Near-Field	SB-TBA	2 times per year																																																						
	SB-TBB	2 times per year																																																						
Sensitive Receiver Stations	MW1	2 times per year																																																						
	THB1	2 times per year																																																						
	THB2	2 times per year																																																						
Tissue/ Whole Body Sampling																																																								
Near-Pit Stations	SB-INA	2 times per year																																																						
	SB-INB	2 times per year																																																						
Reference North	TNA	2 times per year																																																						
	TNB	2 times per year																																																						
Reference South	TSA	2 times per year																																																						
	TSB	2 times per year																																																						
Demersal Trawling																																																								
Impact	SB-INA 1-5	4 times per year																																																						
	SB-INB 1-5	4 times per year																																																						
Reference North	TNA 1-5	4 times per year																																																						
	TNB 1-5	4 times per year																																																						
Reference South	TSA 1-5	4 times per year																																																						
	TSB 1-5	4 times per year																																																						

Annex A3 - Environmental Monitoring and Audit Sampling Schedule for South of The Brothers (July 2012 - December 2017)

			2012					2013					2014					2015					2016					2017																																								
			J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
Capping Water Quality Monitoring																																																																				
<i>Ebb Tide</i>																																																																				
Impact Stations Downcurrent	SB-IPE1	8 times per year																																																																		
	SB-IPE2	8 times per year																																																																		
	SB-IPE3	8 times per year																																																																		
	SB-IPE4	8 times per year																																																																		
	SB-IPE5	8 times per year																																																																		
Intermediate Stations Downcurrent	SB-INE1	8 times per year																																																																		
	SB-INE2	8 times per year																																																																		
	SB-INE3	8 times per year																																																																		
	SB-INE4	8 times per year																																																																		
	SB-INE5	8 times per year																																																																		
Reference Stations Upcurrent	SB-RFE1	8 times per year																																																																		
	SB-RFE2	8 times per year																																																																		
	SB-RFE3	8 times per year																																																																		
	SB-RFE4	8 times per year																																																																		
	SB-RFE5	8 times per year																																																																		
Sensitive Receiver Stations	MW1	8 times per year																																																																		
	THB1	8 times per year																																																																		
	THB2	8 times per year																																																																		
	WSR45C	8 times per year																																																																		
	WSR46	8 times per year																																																																		
<i>Flood Tide</i>																																																																				
Impact Stations Downcurrent	SB-IPF1	8 times per year																																																																		
	SB-IPF2	8 times per year																																																																		
	SB-IPF3	8 times per year																																																																		
Intermediate Stations Downcurrent	SB-INF1	8 times per year																																																																		
	SB-INF2	8 times per year																																																																		
	SB-INF3	8 times per year																																																																		
Reference Stations Upcurrent	SB-RFF1	8 times per year																																																																		
	SB-RFF2	8 times per year																																																																		
	SB-RFF3	8 times per year																																																																		
Sensitive Receiver Stations	MW1	8 times per year																																																																		
	THB1	8 times per year																																																																		
	THB2	8 times per year																																																																		
	WSR45C	8 times per year																																																																		
	WSR46	8 times per year																																																																		
Benthic Recolonisation Studies																																																																				
Capped Contaminated Mud Pits																																																																				
	SB-CPA	2 times per year																																																																		
	SB-CPB	2 times per year																																																																		
Reference Stations	RBA	2 times per year																																																																		
	RBB	2 times per year																																																																		
	RBC	2 times per year																																																																		

Notes:
 "x" = Number of replicates depends on parameters
 Naming of stations are tentative only and will be subjected to changes