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

			2012											2013												2014												2015												2016												2017											
Baseline Monitoring Prior to Dredging	**Code**	**Frequency**	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	J	F	M	A	M	J	J	A	S	O	N	D
Far Field Stations																																																																											
	SB-WFA	3 days per week for 4 weeks							*	*																																																														
	SB-WFB	3 days per week for 4 weeks							*	*																																																														
Mid Field Stations																																																																											
	SB-WMA	3 days per week for 4 weeks							*	*																																																														
	SB-WMB	3 days per week for 4 weeks							*	*																																																														
Near Field Stations																																																																											
	SB-WNAA	3 days per week for 4 weeks							*	*																																																														
	SB-WNAB	3 days per week for 4 weeks							*	*																																																														
	SB-WNBA	3 days per week for 4 weeks							*	*																																																														
	SB-WNBB	3 days per week for 4 weeks							*	*																																																														
Reference Stations																																																																											
	NM1	3 days per week for 4 weeks							*	*																																																														
	NM2	3 days per week for 4 weeks							*	*																																																														
	NM3	3 days per week for 4 weeks							*	*																																																														
	NM5	3 days per week for 4 weeks							*	*																																																														
	NM6	3 days per week for 4 weeks							*	*																																																														
Sensitive Receiver Stations																																																																											
	MW1	3 days per week for 4 weeks							*	*																																																														
	THB1	3 days per week for 4 weeks							*	*																																																														
	THB2	3 days per week for 4 weeks							*	*																																																														
	WSR45C	3 days per week for 4 weeks							*	*																																																														
	WSR46	3 days per week for 4 weeks							*	*																																																														

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	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
Upstream Stations																																																																											
	US1	3 days per week										*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*																																								
	US2	3 days per week										*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*																																								
Downstream Stations																																																																											
	DS1	3 days per week										*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*																																								
	DS2	3 days per week										*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*																																								
	DS3	3 days per week										*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*																																								
	DS4	3 days per week										*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*																																								
	DS5	3 days per week										*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*																																								
Sensitive Receiver Stations																																																																											
	MW1	3 days per week										*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*																																								
	THB1	3 days per week										*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*																																								
	THB2	3 days per week										*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*																																								
	WSR45C	3 days per week										*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*																																								
	WSR46	3 days per week										*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*																																								

Pit Specific 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	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
SB CMP 1 Active																																																																										
Near-Pit																																																																											
	SB-NNAA	Monthly																			12	12	12	12	12	12	12	12	12	12	12	12																																															
	SB-NNAB	Monthly																			12	12	12	12	12	12	12	12	12	12	12	12																																															
Pit-Edge																																																																											
	SB-NEAA	Monthly																			12	12	12	12	12	12	12	12	12	12	12	12																																															
	SB-NEAB	Monthly																			12	12	12	12	12	12	12	12	12	12	12	12																																															
Active-Pit																																																																											
	SB-NPAA	Monthly																			12	12	12	12	12	12	12	12	12	12	12	12																																															
	SB-NPAB	Monthly																			12	12	12	12	12	12	12	12	12	12	12	12																																															
SB CMP 2 Active																																																																											
Near-Pit																																																																											
	SB-NNBA	Monthly																															12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12																																														
	SB-NNBB	Monthly																															12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12																																														
Pit-Edge																																																																											
	SB-NEBA	Monthly																															12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12																																														
	SB-NEBB	Monthly																															12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12																																														
Active-Pit																																																																											
	SB-NPBA	Monthly																															12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12																																														
	SB-NPBB	Monthly																															12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12																																														

Cumulative Impact Sediment Chemistry			2012												2013												2014												2015												2016												2017											
			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	J	F	M	A	M	J	J	A	S	O	N	D
Near-field Stations																																																																											
	SB-RNA	4 times per year																				12				12		12				12		12				12		12				12		12				12																														
	SB-RNB	4 times per year																				12				12		12				12		12				12		12				12		12				12																														
Mid-field Stations																																																																											
	SB-RMA	4 times per year																				12				12		12				12		12				12		12				12		12				12																														
	SB-RMB	4 times per year																				12				12		12				12		12				12		12				12		12				12																														
Far-Field Stations																																																																											
	SB-RFA	4 times per year																				12				12		12				12		12				12		12				12		12				12																														
	SB-RFB	4 times per year																				12				12		12				12		12				12		12				12		12				12																														
Capped Pit Stations																																																																											
	SB-RCA	4 times per year																				12				12		12				12		12				12		12				12		12				12																														
	SB-RCB	4 times per year																				12				12		12				12		12				12		12				12		12				12																														
Sensitive Receiver Stations																																																																											
	MW1	4 times per year																				12				12		12				12		12				12		12				12		12				12																														
	THB1	4 times per year																				12				12		12				12		12				12		12				12		12				12																														
	THB2	4 times per year																				12				12		12				12		12				12		12				12		12				12																														

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	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
SB CMP 1 Active																																																																								
Reference																																																																										
	SB-TRA	2 times per year																				5						5																																														
	SB-TRB	2 times per year																				5						5																																														
Near-Field																																																																											
	SB-TAA	2 times per year																				5						5																																														
	SB-TAB	2 times per year																				5						5																																														
Sensitive Receiver Stations																																																																											
	MW1	2 times per year																				5						5																																														
	THB1	2 times per year																				5						5																																														
	THB2	2 times per year																				5						5																																														
SB CMP 2 Active																																																																											
Reference																																																																										
	SB-TRA	2 times per year																																5						5						5																												
	SB-TRB	2 times per year																																5						5						5																												
Near-Field																																																																											
	SB-TBA	2 times per year																																5						5						5																												
	SB-TBB	2 times per year																																5						5						5																												
Sensitive Receiver Stations																																																																											
	MW1	2 times per year																																5						5						5																												
	THB1	2 times per year																																5						5						5																												
	THB2	2 times per year																																5						5						5																												

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	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
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			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	J	F	M	A	M	J	J	A	S	O	N	D
Impact																																																																									
	SB-INA 1-5	4 times per year																			5	5					5	5					5	5					5	5					5	5					5	5																						
	SB-INB 1-5	4 times per year																			5	5					5	5					5	5					5	5					5	5					5	5																						
Reference North																																																																											
	TNA 1-5	4 times per year																			5	5					5	5					5	5					5	5					5	5					5	5																						
	TNB 1-5	4 times per year																			5	5					5	5					5	5					5	5					5	5					5	5																						
Reference South																																																																											
	TSA 1-5	4 times per year																			5	5					5	5					5	5					5	5					5	5					5	5																						
	TSB 1-5	4 times per year																			5	5					5	5					5	5					5	5					5	5					5	5																						

Routine Water Quality Monitoring			2012												2013												2014												2015												2016												2017											
			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	J	F	M	A	M	J	J	A	S	O	N	D
Ebb Tide																																																																								
Impact Stations Downcurrent																																																																								
	SB-IPE1	8 times per year																			8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8																											
	SB-IPE2	8 times per year																			8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8																											
	SB-IPE3	8 times per year																			8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8																											
	SB-IPE4	8 times per year																			8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8																											
	SB-IPE5	8 times per year																			8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8																											
Intermediate Stations Downcurrent																																																																								
	SB-INE1	8 times per year																			8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8																											
	SB-INE2	8 times per year																			8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8																											
	SB-INE3	8 times per year																			8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8																											
	SB-INE4	8 times per year																			8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8																											
	SB-INE5	8 times per year																			8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8																											
Reference Stations Upcurrent																																																																								
	SB-RFE1	8 times per year																			8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8																											
	SB-RFE2	8 times per year																			8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8																											
	SB-RFE3	8 times per year																			8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8																											
	SB-RFE4	8 times per year																			8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8																											
	SB-RFE5	8 times per year																			8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8																											
Sensitive Receiver Stations																																																																								
	MW1	8 times per year																			8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8																											
	THB1	8 times per year																			8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8																											
	THB2	8 times per year																			8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8																											
	WSR45C	8 times per year																			8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8																											
	WSR46	8 times per year																			8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8																											
Flood Tide																																																																								
Impact Stations Downcurrent																																																																								
	SB-IPF1	8 times per year																			8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8																											
	SB-IPF2	8 times per year																			8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8																											
	SB-IPF3	8 times per year																			8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8																											
Intermediate Stations Downcurrent																																																																								
	SB-INF1	8 times per year																			8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8																											
	SB-INF2	8 times per year																			8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8																											
	SB-INF3	8 times per year																			8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8																											
Reference Stations Upcurrent																																																																								
	SB-RFF1	8 times per year																			8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8																											
	SB-RFF2	8 times per year																			8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8																											
	SB-RFF3	8 times per year																			8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8																											
Sensitive Receiver Stations																																																																								
	MW1	8 times per year																			8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8																											
	THB1	8 times per year																			8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8																											
	THB2	8 times per year																			8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8																											
	WSR45C	8 times per year																			8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8																											
	WSR46	8 times per year																			8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8																											

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	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
Plume Stations	WCP1	Monthly																			4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	WCP2	Monthly																			4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4

Capping Water Quality Monitoring			2012												2013												2014												2015												2016												2017											
			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	J	F	M	A	M	J	J	A	S	O	N	D
Ebb Tide																																																																											
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																																																																										
Flood Tide																																																																											
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																																																																											
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	SB-RFF2	8 times per year																																																																										
	SB-RFF3	8 times per year																																																																										
Sensitive Receiver Stations																																																																											
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	THB2	8 times per year																																																																										
	WSR45C	8 times per year																																																																										
	WSR46	8 times per year																																																																										

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