



ANNEX J

SOFT SHORE ECOLOGY



ANNEX J1

MONITORING SCHEDULE

Tung Chung New Town Extension (East)
Post-Construction Soft Shore Ecological Monitoring Schedule (September 2025)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1-Sep	2-Sep	3-Sep	4-Sep	5-Sep	6-Sep
				Soft Shore Monitoring at Tung Chung Bay	Soft Shore Monitoring at Tung Chung Bay	
7-Sep	8-Sep	9-Sep	10-Sep	11-Sep	12-Sep	13-Sep
14-Sep	15-Sep	16-Sep	17-Sep	18-Sep	19-Sep	20-Sep
			Soft Shore Monitoring at Tai Ho Bay	Soft Shore Monitoring at Tung Chung Bay		
21-Sep	22-Sep	23-Sep	24-Sep	25-Sep	26-Sep	27-Sep
28-Sep	29-Sep	30-Sep				



ANNEX J2

MONITORING RESULTS

Table J2.1 Results for Horseshoe Crabs during Qualitative Walk-through Surveys in September 2025

Sighting #	Species	Prosomal Width (cm)	Total Length (cm)
Monitoring Date: 4 September 2025			
Monitoring Station: TCB1			
1	<i>Tachypleus tridentatus</i>	3.0	5.0
2	<i>Tachypleus tridentatus</i>	2.0	3.5
3	<i>Tachypleus tridentatus</i>	3.2	5.2
4	<i>Tachypleus tridentatus</i>	2.1	3.8
5	<i>Tachypleus tridentatus</i>	1.8	3.6
6	<i>Tachypleus tridentatus</i>	5.8	12.7
7	<i>Tachypleus tridentatus</i>	6.0	12.8
8	<i>Tachypleus tridentatus</i>	5.7	12.9
Mean (Range)		3.7 (1.8 – 6.0)	7.4 (3.5 – 12.9)
Monitoring Date: 5 September 2025			
Monitoring Station: TCB2			
1	<i>Tachypleus tridentatus</i>	1.0	1.4
2	<i>Tachypleus tridentatus</i>	1.4	1.6
3	<i>Tachypleus tridentatus</i>	1.5	1.7
4	<i>Tachypleus tridentatus</i>	2.8	5.5
5	<i>Tachypleus tridentatus</i>	2.3	4.0
6	<i>Tachypleus tridentatus</i>	1.5	2.5
7	<i>Tachypleus tridentatus</i>	1.5	2.8
8	<i>Tachypleus tridentatus</i>	1.5	2.9
9	<i>Tachypleus tridentatus</i>	1.5	3.0
Mean (Range)		1.7 (1.0 – 2.8)	2.8 (1.4 – 5.5)
Monitoring Date: 17 September 2025			
Monitoring Station: THW			
1	<i>Tachypleus tridentatus</i>	2.0	3.8
2	<i>Tachypleus tridentatus</i>	3.0	5.8
3	<i>Tachypleus tridentatus</i>	2.0	3.9
4	<i>Tachypleus tridentatus</i>	2.0	3.9
5	<i>Tachypleus tridentatus</i>	2.0	3.6
6	<i>Tachypleus tridentatus</i>	4.1	9.3
7	<i>Tachypleus tridentatus</i>	2.0	3.9
8	<i>Tachypleus tridentatus</i>	2.2	3.9
9	<i>Tachypleus tridentatus</i>	1.5	2.5
10	<i>Tachypleus tridentatus</i>	2.1	3.5
11	<i>Tachypleus tridentatus</i>	1.6	2.3
12	<i>Tachypleus tridentatus</i>	1.7	2.8
13	<i>Tachypleus tridentatus</i>	2.0	4.1
14	<i>Tachypleus tridentatus</i>	3.7	7.3
15	<i>Tachypleus tridentatus</i>	4.9	10.1
16	<i>Tachypleus tridentatus</i>	1.9	4.0
17	<i>Tachypleus tridentatus</i>	2.2	3.6
18	<i>Tachypleus tridentatus</i>	1.2	2.2
19	<i>Tachypleus tridentatus</i>	2.8	5.4
20	<i>Tachypleus tridentatus</i>	2.3	4.0
21	<i>Tachypleus tridentatus</i>	1.6	3.0
22	Unidentified ^(a)	0.7	0.8
23	Unidentified ^(a)	0.8	1.2
24	Unidentified ^(a)	0.6	0.8
25	Unidentified ^(a)	0.6	0.8
26	<i>Tachypleus tridentatus</i>	1.5	3.0
27	Unidentified ^(a)	0.7	1.0
28	Unidentified ^(a)	0.7	0.8
29	Unidentified ^(a)	0.7	0.8
30	Unidentified ^(a)	0.7	0.7

31	Unidentified ^(a)	0.6	0.6
32	<i>Tachypleus tridentatus</i>	2.0	4.1
33	<i>Tachypleus tridentatus</i>	3.0	6.0
34	Unidentified ^(a)	0.7	0.8
35	<i>Tachypleus tridentatus</i>	0.9	1.1
36	<i>Tachypleus tridentatus</i>	1.4	2.5
37	<i>Tachypleus tridentatus</i>	0.9	1.1
38	<i>Tachypleus tridentatus</i>	0.9	1.2
39	<i>Tachypleus tridentatus</i>	4.6	6.5
40	Unidentified ^(a)	0.8	0.9
Mean (Range)		1.8 (0.6 – 4.9)	3.2 (0.6 – 10.1)

Monitoring Date: 18 September 2025

Monitoring Station: TCB3

1	<i>Tachypleus tridentatus</i>	1.9	2.2
2	<i>Tachypleus tridentatus</i>	1.4	2.4
3	Unidentified ^(a)	0.6	0.7
4	<i>Tachypleus tridentatus</i>	1.8	2.3
5	<i>Tachypleus tridentatus</i>	1.5	2.6
6	Unidentified ^(a)	0.6	0.7
7	<i>Tachypleus tridentatus</i>	2.0	3.5
8	<i>Tachypleus tridentatus</i>	3.1	5.4
9	<i>Tachypleus tridentatus</i>	1.8	3.4
10	<i>Tachypleus tridentatus</i>	2.5	4.2
11	<i>Tachypleus tridentatus</i>	3.0	5.8
12	<i>Tachypleus tridentatus</i>	2.8	5.4
13	<i>Tachypleus tridentatus</i>	3.0	5.2
14	<i>Tachypleus tridentatus</i>	2.1	3.6
15	<i>Tachypleus tridentatus</i>	2.1	3.4
16	<i>Tachypleus tridentatus</i>	2.2	3.9
17	<i>Tachypleus tridentatus</i>	2.2	3.8
18	<i>Tachypleus tridentatus</i>	2.1	3.6
19	<i>Tachypleus tridentatus</i>	2.1	3.7
20	<i>Tachypleus tridentatus</i>	2.1	3.8
21	<i>Tachypleus tridentatus</i>	1.5	2.4
22	<i>Tachypleus tridentatus</i>	2.2	3.9
23	<i>Tachypleus tridentatus</i>	1.4	2.5
24	<i>Tachypleus tridentatus</i>	2.5	4.3
25	<i>Tachypleus tridentatus</i>	2.0	3.8
Mean (Range)		2.0 (0.6 – 3.1)	3.5 (0.7 – 5.8)

Note:

- a) 13 horseshoe crab individuals, eleven (11) at THW and two (2) at TCB3 were recorded with prosomal width of 0.6-0.8cm and total length of 0.6-1.0cm. These individuals were considered to be too small for species identification by the naked eye and were recorded as unidentified species.

Table J2.2 Results for Seagrass during Qualitative Walk-through Surveys in September 2025

Sighting #	Species	Area (m ²)	Area Coverage (%)	Seagrass Area (m ²)
Monitoring Date: 5 September 2025				
Monitoring Station: TCB3				
1	<i>Halophila ovalis</i>	4.0	95%	3.8
Monitoring Date: 18 September 2025				
Monitoring Station: TCB3				
1	<i>Halophila ovalis</i>	200	100%	200.0
2	<i>Halophila ovalis</i>	220	40%	88.0

Table J2.3 *Results for Other Intertidal Soft Shore Communities during Qualitative Walk-through Surveys in September 2025*

Monitoring Station	Shore Height *	No. of Species
TCB1	H	22
	M	25
	L	19
	Overall	34
TCB2	H	19
	M	18
	L	14
	Overall	26
TCB3	H	20
	M	22
	L	24
	Overall	34
THW	H	22
	M	22
	L	16
	Overall	31

* H: +2mCD; M: +1.5mCD; L: +1mCD

Table J2.4 Results for Other Intertidal Soft Shore Communities during Quantitative Transect Surveys in September 2025

Monitoring Station	Shore Height *	Top Three Dominant Species	Density (ind. / m ²)
TCB1	H	1 <i>Batillaria multiformis</i>	145.6
		2 <i>Cerithidea diadjariensis</i>	105.6
		3 <i>Cerithidea cingulata</i>	57.6
	M	1 <i>Cerithidea cingulata</i>	132.0
		2 <i>Batillaria multiformis</i>	110.4
		3 <i>Cerithidea diadjariensis</i>	84.0
	L	1 <i>Batillaria zonalis</i>	32.0
		2 <i>Sipunculus</i> sp.	8.0
		3 <i>Anomalocardia squamosa</i> and Ribbon Worm sp.	5.6
TCB2	H	1 <i>Cerithidea diadjariensis</i>	183.2
		2 <i>Batillaria zonalis</i>	8.8
		3 <i>Cerithidea cingulata</i>	4.8
	M	1 <i>Cerithidea diadjariensis</i>	99.2
		2 Ribbon Worm sp.	4.8
		3 <i>Monodonta labio</i>	2.4
	L	1 <i>Cerithidea diadjariensis</i>	25.6
		2 <i>Cerithidea cingulata</i>	8.0
		3 Ribbon Worm sp.	4.0
TCB3	H	1 <i>Batillaria multiformis</i>	2731.2
		2 <i>Batillaria zonalis</i>	1917.6
		3 <i>Nassarius festivus</i>	536.0
	M	1 <i>Batillaria multiformis</i>	718.4
		2 <i>Batillaria zonalis</i>	569.6
		3 <i>Cerithidea cingulata</i>	337.6
	L	1 <i>Batillaria zonalis</i>	30.4
		2 <i>Cerithidea diadjariensis</i> and <i>Monodonta labio</i>	12.8
		3 <i>Batillaria multiformis</i>	12.0
THW	H	1 <i>Geloina erosa</i>	48.8
		2 <i>Cerithidea diadjariensis</i>	12.0
		3 <i>Terebralia sulcata</i>	6.4
	M	1 <i>Cerithidea diadjariensis</i>	156.8
		2 <i>Cerithidea cingulata</i>	17.6
		3 <i>Geloina erosa</i>	12.0
	L	1 <i>Cerithidea diadjariensis</i>	76.8
		2 <i>Cerithidea cingulata</i>	31.2
		3 <i>Batillaria zonalis</i>	13.6

* H: +2mCD; M: +1.5mCD; L: +1mCD

Group	Species	TCB1			TCB2			TCB3			THW		
		H (Qual)	M (Qual)	L (Qual)	H (Qual)	M (Qual)	L (Qual)	H (Qual)	M (Qual)	L (Qual)	H (Qual)	M (Qual)	L (Qual)
Algae	<i>Gelidium sp.</i>		+	+					+	+			
Barnacle	<i>Balanus amphitrite</i>	+		+			+	+		+		+	+
Bivalve	<i>Anomalocardia squamosa</i>		+	++						+			
Bivalve	<i>Barbatia virescens</i>		+	+						+			
Bivalve	<i>Coecella chinensis</i>	+								+			+
Bivalve	<i>Cyclina sinensis</i>	+	+		+		+	+					
Bivalve	<i>Ervilia sp.</i>	+											
Bivalve	<i>Geloina erosa</i>	+	+	+	+	+		+	+		+++	++	
Bivalve	<i>Laternula anatina</i>										+		+
Bivalve	<i>Saccostrea cucullata</i>	++	++	+++	+	+	++	+	++	+++	+	++	+
Bivalve	<i>Septifer virgatus</i>			+			+		+	+			
Bivalve	<i>Ruditapes philippinarum</i>									+			+
Crab	<i>Macrophthalmus sp.</i>	+										+	+
Crab	<i>Metapograpsus frontalis</i>				+								
Crab	<i>Metapograpsus quadridematus</i>		+	+	++	+		+	+	+	+		+
Crab	<i>Parasesarma pictum</i>				+	+	+				++	+	
Crab	<i>Perisesarma bidens</i>				++						++		
Crab	<i>Uca arcuata</i>					+					+	+	+
Crab	<i>Uca borealis</i>	+	+			+	+	+			+	+	+
Crab	<i>Uca lactea</i>	++	+			+	+	+	+		+	+	
Crab	<i>Uca splendida</i>										++	+	
Fish	<i>Periophthalmus modestus</i>	+	+	+	++	++	+	+	+	+	+	+	+
Gastropod	<i>Batillaria multiformis</i>	+++	++	+	+	+	+	+++	+++	++	+	+	+
Gastropod	<i>Batillaria zonalis</i>	++	++	++	+	+	+	+++	+++	++	+	+	++
Gastropod	<i>Cellana grata</i>												
Gastropod	<i>Cellana toreuma</i>		+						+				
Gastropod	<i>Cerithidea cingulata</i>	+++	+++	+	+	+	+	+++	+++	++	+	++	+++
Gastropod	<i>Cerithidea diadjarimensis</i>	+++	+++	+	++	++	++	+++	+++	++	++	+++	+++
Gastropod	<i>Cerithidea rhizophorarum</i>							+			++	+	
Gastropod	<i>Clithon spp.</i>	+	+		+			++	+	+	+	+	
Gastropod	<i>Littoraria ardouiniana</i>	+						+			+		
Gastropod	<i>Littoraria articulata</i>	++	+		+	+		+	+++	+		+	
Gastropod	<i>Littoraria melanostoma</i>	+						+			+		
Gastropod	<i>Lunella coronata</i>	+	+	+					++	+			
Gastropod	<i>Monodonta labio</i>	++	++	+	++	+		+	+++	++			
Gastropod	<i>Nassarius festivus</i>		+				+	+++	+++			+	++
Gastropod	<i>Nerita albicilla</i>		+		+	+			+	+		+	
Gastropod	<i>Nerita chamaeleon</i>									+			
Gastropod	<i>Nerita polita</i>		+		+	+		+	+	+		+	
Gastropod	<i>Terebralia palustris</i>					+					++	+	
Gastropod	<i>Terebralia sulcata</i>										+++	+++	
Hermit Crab	<i>Clibanarius sp.</i>		+	++									
Hermit Crab	<i>Diogenes sp.</i>			+						+			
Horseshoe Crab	<i>Tachypleus tridentatus</i>	+	+		+			+	+		+	+	+
Horseshoe Crab	Unidentified sp.							+	+		+		
Prawn	<i>Penaeus sp.</i>												
Seagrass	<i>Halophila ovalis</i>							+	+				
Sea Slater	<i>Ligia oceanica</i>	+			+++								
Seaslug	<i>Onchidium sp.</i>										+		
Worm	<i>Sipunculus sp.</i>		+	+					+	+			
Worm	Ribbon Worm sp.	+		+	+	+	+		+	+			+

Remark: '+' denotes the species was relatively uncommon at the area;
 '++' denotes the species was relatively common at the area;
 '+++' denotes the species was relatively abundant at the area.

Group	Species	TCB1																	Density (ind. / m ² or % cover)
		H1	H2	H3	H4	H5	Density (ind. / m ² or % cover)	M1	M2	M3	M4	M5	Density (ind. / m ² or % cover)	L1	L2	L3	L4	L5	Density (ind. / m ² or % cover)
Algae	<i>Gelidium sp.</i>						0%	5%					1%						0%
Barnacle	<i>Balanus amphitrite</i>						0%						0%						0%
Bivalve	<i>Anomalocardia squamosa</i>						0	1					0.8	3	2	2			5.6
Bivalve	<i>Barbatia virescens</i>						0	2		2			3.2				2		1.6
Bivalve	<i>Coecella chinensis</i>		1				0.8						0						0
Bivalve	<i>Cyclina sinensis</i>	1			1		1.6					2	1.6						0
Bivalve	<i>Ervilia sp.</i>		1				0.8						0						0
Bivalve	<i>Geloina erosa</i>	1	1	2			3.2	1				1	1.6		1				0.8
Bivalve	<i>Laternula anatina</i>						0						0						0
Bivalve	<i>Saccostrea cucullata</i>		5%	5%	<5%	5%	3%	15%		15%		5%	7%	15%	20%	25%	20%	15%	19%
Bivalve	<i>Septifer virgatus</i>						0%						0%				<5%		<5%
Bivalve	<i>Ruditapes philippinarum</i>						0						0						0
Crab	<i>Macrophthalmus sp.</i>						0						0						0
Crab	<i>Metapograpus quadridemtatus</i>						0	1					0.8						0
Crab	<i>Parasesarma pictum</i>						0						0						0
Crab	<i>Uca borealis</i>						0						0						0
Crab	<i>Uca splendida</i>						0						0						0
Gastropod	<i>Batillaria multiformis</i>	1	52	10	12	107	145.6	5	2	49	4	78	110.4						0
Gastropod	<i>Batillaria zonalis</i>	7	3	5	1	1	13.6	10	24	12	8	11	52.0	4	4	3	23	6	32.0
Gastropod	<i>Cellana grata</i>						0						0						0
Gastropod	<i>Cerithidea cingulata</i>	4	1	1	63	3	57.6	24	60	20	5	56	132.0				2		1.6
Gastropod	<i>Cerithidea diadjarimensis</i>	19	2	7	91	13	105.6	19	4	30	34	18	84.0		2				1.6
Gastropod	<i>Cerithidea rhizophorarum</i>						0						0						0
Gastropod	<i>Clithon spp.</i>			1			0.8			3	4	4	8.8						0
Gastropod	<i>Littoraria articulata</i>						0						0						0
Gastropod	<i>Lunella coronata</i>						0						0						0
Gastropod	<i>Monodonta labio</i>		10	2		1	10.4	3		6			7.2				4		3.2
Gastropod	<i>Nassarius festivus</i>						0		2				1.6						0
Gastropod	<i>Nerita albicilla</i>						0						0						0
Gastropod	<i>Nerita chamaeleon</i>						0						0						0
Gastropod	<i>Nerita polita</i>						0					2	1.6						0
Gastropod	<i>Terebralia palustris</i>						0						0						0
Gastropod	<i>Terebralia sulcata</i>						0						0						0
Worm	<i>Sipunculus sp.</i>						0			2			1.6		4		2	4	8.0
Worm	Ribbon Worm sp.		1				0.8						0				4	3	5.6

Group	Species	TCB2																	
		H1	H2	H3	H4	H5	Density (ind. / m ² or % cover)	M1	M2	M3	M4	M5	Density (ind. / m ² or % cover)	L1	L2	L3	L4	L5	Density (ind. / m ² or % cover)
Algae	<i>Gelidium sp.</i>						0%						0%						0%
Barnacle	<i>Balanus amphitrite</i>						0%						0%						0%
Bivalve	<i>Anomalocardia squamosa</i>						0						0						0
Bivalve	<i>Barbatia virescens</i>						0						0						0
Bivalve	<i>Coecella chinensis</i>						0						0						0
Bivalve	<i>Cyclina sinensis</i>	1			1	1	2.4						0					1	0.8
Bivalve	<i>Ervilia sp.</i>						0						0						0
Bivalve	<i>Geloina erosa</i>				1	1	2.4	1					0.8						0
Bivalve	<i>Laternula anatina</i>						0						0						0
Bivalve	<i>Saccostrea cucullata</i>	<5%					<5%	<5%		<5%		5%	1%	5%			<5%		1%
Bivalve	<i>Septifer virgatus</i>						0%						0%	<5%					<5%
Bivalve	<i>Ruditapes philippinarum</i>						0						0						0
Crab	<i>Macrophthalmus sp.</i>						0						0						0
Crab	<i>Metapograpus quadridemtatus</i>						0						0						0
Crab	<i>Parasesarma pictum</i>				1		0.8						0	3					2.4
Crab	<i>Uca borealis</i>						0						0						0
Crab	<i>Uca splendida</i>						0						0						0
Gastropod	<i>Batillaria multiformis</i>						0						0						0
Gastropod	<i>Batillaria zonalis</i>	3			4	2	8.8						0						0
Gastropod	<i>Cellana grata</i>						0						0						0
Gastropod	<i>Cerithidea cingulata</i>	2				4	4.8					2	1.6		2		3	5	8.0
Gastropod	<i>Cerithidea diadjarimensis</i>	20	2	90	65	52	183.2	5	74	19	8	18	99.2				8	24	25.6
Gastropod	<i>Cerithidea rhizophorarum</i>						0						0						0
Gastropod	<i>Clithon spp.</i>						0						0						0
Gastropod	<i>Littoraria articulata</i>						0						0						0
Gastropod	<i>Lunella coronata</i>						0						0						0
Gastropod	<i>Monodonta labio</i>						0					3	2.4						0
Gastropod	<i>Nassarius festivus</i>						0						0				2		1.6
Gastropod	<i>Nerita albicilla</i>						0						0						0
Gastropod	<i>Nerita chamaeleon</i>						0						0						0
Gastropod	<i>Nerita polita</i>						0						0						0
Gastropod	<i>Terebralia palustris</i>						0		1				0.8						0
Gastropod	<i>Terebralia sulcata</i>						0						0						0
Worm	<i>Sipunculus sp.</i>						0						0						0
Worm	Ribbon Worm sp.				1		0.8	6					4.8	4			1		4.0

Group	Species	TCB3																		
		H1	H2	H3	H4	H5	Density (ind. / m ² or % cover)	M1	M2	M3	M4	M5	Density (ind. / m ² or % cover)	L1	L2	L3	L4	L5	Density (ind. / m ² or % cover)	
Algae	<i>Gelidium sp.</i>						0%	<5%				5%		1%	5%	5%	<5%	<5%	5%	3%
Barnacle	<i>Balanus amphitrite</i>						0%						0%		5%					1%
Bivalve	<i>Anomalocardia squamosa</i>						0						0	1						0.8
Bivalve	<i>Barbatia virescens</i>						0						0							0
Bivalve	<i>Coecella chinensis</i>						0						0	2	3					4
Bivalve	<i>Cyclina sinensis</i>		1	1		2	3.2						0							0
Bivalve	<i>Ervilia sp.</i>						0						0							0
Bivalve	<i>Geloina erosa</i>		1		2		2.4	1				1	1.6							0
Bivalve	<i>Laternula anatina</i>						0						0							0
Bivalve	<i>Saccostrea cucullata</i>	<5%	<5%			<5%	<5%	15%	10%	15%	10%	15%	13%	15%	10%	15%	20%	30%		18%
Bivalve	<i>Septifer virgatus</i>						0%	<5%					<5%			<5%				<5%
Bivalve	<i>Ruditapes philippinarum</i>						0						0		1					0.8
Crab	<i>Macrophthalmus sp.</i>						0						0							0
Crab	<i>Metapograpus quadridemtatus</i>						0				1		0.8							0
Crab	<i>Parasesarma pictum</i>						0						0							0
Crab	<i>Uca borealis</i>						0						0							0
Crab	<i>Uca splendida</i>						0						0							0
Gastropod	<i>Batillaria multiformis</i>	1269	969	267	189	720	2731.2	334	136	211	202	15	718.4	13	2					12.0
Gastropod	<i>Batillaria zonalis</i>	714	759	189	186	549	1917.6	178	106	116	230	82	569.6	22	16					30.4
Gastropod	<i>Cellana grata</i>						0	2					1.6							0
Gastropod	<i>Cerithidea cingulata</i>		25	27	156	69	221.6	14	172	90	42	104	337.6	2	2					3.2
Gastropod	<i>Cerithidea diadjarimensis</i>	18	21	48	66	60	170.4	8	50	92	38	63	200.8	12	4					12.8
Gastropod	<i>Cerithidea rhizophorarum</i>		2				1.6						0							0
Gastropod	<i>Clithon spp.</i>		3	11	15	6	28.0	6	4				8.0							0
Gastropod	<i>Littoraria articulata</i>						0	51	32				66.4							0
Gastropod	<i>Lunella coronata</i>						0	15	6		4		20.0		2	10				9.6
Gastropod	<i>Monodonta labio</i>	3					2.4	23	52		2		61.6	6	4	6				12.8
Gastropod	<i>Nassarius festivus</i>	222	216	28		204	536.0	64	12	86	8	5	140.0							0
Gastropod	<i>Nerita albicilla</i>						0	3					2.4							0
Gastropod	<i>Nerita chamaeleon</i>						0						0	1						0.8
Gastropod	<i>Nerita polita</i>						0		2				1.6	1						0.8
Gastropod	<i>Terebralia palustris</i>						0						0							0
Gastropod	<i>Terebralia sulcata</i>						0						0							0
Worm	<i>Sipunculus sp.</i>						0	2			11		10.4	2						1.6
Worm	Ribbon Worm sp.						0	4					3.2							0

Group	Species	THW																	
		H1	H2	H3	H4	H5	Density (ind. / m ² or % cover)	M1	M2	M3	M4	M5	Density (ind. / m ² or % cover)	L1	L2	L3	L4	L5	Density (ind. / m ² or % cover)
Algae	<i>Gelidium sp.</i>						0%						0%						0%
Barnacle	<i>Balanus amphitrite</i>						0%						0%						0%
Bivalve	<i>Anomalocardia squamosa</i>						0						0						0
Bivalve	<i>Barbatia virescens</i>						0						0						0
Bivalve	<i>Coecella chinensis</i>						0						0				1		0.8
Bivalve	<i>Cyclina sinensis</i>						0						0						0
Bivalve	<i>Ervilia sp.</i>						0						0						0
Bivalve	<i>Geloina erosa</i>	12	18	12	17	2	48.8	5		4	5	1	12.0						0
Bivalve	<i>Laternula anatina</i>					1	0.2						0	1					0.2
Bivalve	<i>Saccostrea cucullata</i>						0%	<5%			5%	15%	4%	<5%					<5%
Bivalve	<i>Septifer virgatus</i>						0%						0%						0%
Bivalve	<i>Ruditapes philippinarum</i>						0						0					1	0.8
Crab	<i>Macrophthalmus sp.</i>						0			1			0.8			2			1.6
Crab	<i>Metapograpus quadridemtatus</i>						0						0						0
Crab	<i>Parasesarma pictum</i>	6					4.8		1				0.8						0
Crab	<i>Uca borealis</i>						0				3		2.4						0
Crab	<i>Uca splendida</i>		1			2	2.4						0						0
Gastropod	<i>Batillaria multiformis</i>						0						0						0
Gastropod	<i>Batillaria zonalis</i>						0		3		1		3.2	2	12		3		13.6
Gastropod	<i>Cellana grata</i>						0						0						0
Gastropod	<i>Cerithidea cingulata</i>						0		7	3	1	11	17.6	28	4	3	4		31.2
Gastropod	<i>Cerithidea diadjarimensis</i>	9	2	2		2	12.0		29	54	14	99	156.8	36	49	5	2	4	76.8
Gastropod	<i>Cerithidea rhizophorarum</i>						0				1		1						0
Gastropod	<i>Clithon spp.</i>						0						0						0
Gastropod	<i>Littoraria articulata</i>						0						0						0
Gastropod	<i>Lunella coronata</i>						0						0						0
Gastropod	<i>Monodonta labio</i>						0						0						0
Gastropod	<i>Nassarius festivus</i>						0						0		2	4	6	2	11.2
Gastropod	<i>Nerita albicilla</i>						0						0						0
Gastropod	<i>Nerita chamaeleon</i>						0						0						0
Gastropod	<i>Nerita polita</i>						0						0						0
Gastropod	<i>Terebralia palustris</i>	1					0.8						0						0
Gastropod	<i>Terebralia sulcata</i>	3	5				6.4	1				1	1.6						0
Worm	<i>Sipunculus sp.</i>						0						0						0
Worm	Ribbon Worm sp.						0						0	1		3			3.2



ANNEX J3 EVENT AND ACTION PLAN

Annex J3 **Event and Action Plan for Soft Shore Ecological Monitoring**

Event	Action			
	ET	IEC	ER	Contractor
Density or the distribution pattern of horseshoe crab, seagrass and intertidal soft shore communities recorded in the impact or post-construction monitoring are significantly lower than or different from those recorded in the baseline monitoring.	1. Review historical data to ensure differences are as a result of natural variation or previously observed seasonal differences; 2. Identify source(s) of impact; 3. Inform the IEC, ER and Contractor; 4. Check monitoring data; 5. Discuss additional monitoring and any other measures, with the IEC, ER and Contractor.	1. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 2. Review proposals for additional monitoring and any other measures submitted by the Contractor and advise the ER accordingly; 3. Supervise the implementation of remedial measures.	1. Discuss with the IEC additional monitoring requirements and any other measures proposed by the ET; 2. Make agreement on the measures to be implemented.	1. Inform the ER and in writing; 2. Discuss with the ET and the IEC and propose measures to the IEC and the ER; 3. Implement the agreed measures; 4. Resubmit proposals of remedial actions if problem still not under control; 5. Stop the relevant portion of works as determined by the ER until the exceedance is abated.