

APPENDIX 5.3 INTERTIDAL ECOLOGICAL SURVEY RESULTS

Methodology

- A5.1 Survey on intertidal communities was conducted at and around the proposed works areas to establish the ecological profile on the intertidal habitats located at and close to the proposed works areas. The locations of intertidal survey were presented in **Figure Nos. NEX2213/C/331/ENS/M51/003 and NEX2213/C/331/ENS/M51/011**.
- A5.2 At each survey location, a qualitative or walk-through survey was conducted to find out the intertidal flora and fauna present and their occurrence. It could help assess whether the sampling exercise in the later quantitative survey had collected representative data (e.g. the number and type of species encountered) and whether the sampling effort was deemed adequate. Effort spent in such qualitative or walk-through survey, such as number of surveyors involved and the time spent were recorded as appropriate.
- A5.3 After the qualitative or walk-through search, quantitative survey was conducted using line transects where possible, with transect deployed on the artificial seawall or natural rocky shore, starting from the high water mark down to low water mark during low tide period when tidal level of below 1 m. Along each transect, standard ecological sampling quadrat of 0.5 m x 0.5 m dimension was laid at 1 m intervals (or other suitable quadrat dimension and interval distance depend on the field situation).
- A5.4 Intertidal epifauna and flora within each quadrat were identified and enumerated. In general, mobile fauna were counted in terms of abundance per unit area. Sessile organisms such as barnacles, oysters, algae and cyanobacteria were estimated in terms of percentage cover per fixed area.

Survey Results

Survey Locations

- A5.5 A description of each survey location is given in **Table 1**.

Table 1 Description of the Survey Transects for Intertidal Survey

Survey Locations	GPS	Site Description
VHR-I1	N22° 17'50.9" E114° 10'43.5"	Located at Tsim Sha Tsui East, shoreline is made up of artificial vertical seawall
VHR-I2	N22° 17'58.4" E114° 10'55.7"	Located at Hung Hom, shoreline is made up of artificial vertical seawall
VHR-I3	N22° 17'50.6" E114° 10'55.3"	Located at the tip of Hung Hom Finger Pier, shoreline is made up of artificial vertical seawall
VHR-I4	N22° 16'59.9" E114° 10'59.3"	Located at CBTS, shoreline is made up of artificial vertical seawall
CBTS-I1	N22° 17'10.6" E114° 11'20.5"	Located within CBTS, shoreline is made up of artificial vertical seawall
CBTS-I2	N22° 17'07.3" E114° 11'23.5"	Located within CBTS, shoreline is made up of artificial vertical seawall with some boulders
CBTS-I3	N22° 17'05.6" E114° 11'20.2"	Located within CBTS, shoreline is made up of artificial sloping seawall
CBTS-I4	N22° 17'04.4" E114° 11'15.2"	Located within CBTS, shoreline is made up of artificial sloping seawall
SKO-I1	N22° 13'16.7" E114° 14'10.5"	Located northwest of Shek O Quarry, shoreline is composed of natural bedrocks

Survey Locations	GPS	Site Description
SKO-I2	N22° 13'13.6" E114° 14'15.7"	Located at the shore of Shek O Quarry, shoreline is composed of artificial sloping boulders
SKO-I3	N22° 13'11.8" E114° 14'16.0"	Located at the shore of Shek O Quarry, shoreline is composed of artificial sloping boulders
SKO-I4	N22° 13'07.2" E114° 14'20.1"	Located at the shore of Shek O Quarry, shoreline is composed of artificial sloping boulders

Wet Season

A5.6 The wet season intertidal surveys were conducted for:

- Mid Victoria Harbour (May 2009)
- Causeway Bay Typhoon Shelter, southeast corner (August 2009)
- Shek O (August 2009)

A5.7 Intertidal fauna found during walk-through search at each survey location are listed in **Table 2**.

Table 2 Intertidal Fauna recorded during Walk-through Survey in Wet Season

Species Name	Rarity in Hong Kong	VHR-11	VHR-12	VHR-13	VHR-14	CBTS-11	CBTS-12	CBTS-13	CBTS-14	SKO-11	SKO-12	SKO-13	SKO-14
Encrusting Algae													
<i>Corallina</i> encrusting algae	Common	+	+	+									
<i>Kyrtuthrix maculans</i>	Common									+	+	+	+
<i>Hildenbrandia rubra</i>	Very Common	+	+							+	+	+	+
Erect Algae													
<i>Porphyra suborbiculata</i>	Very Common	+	+										
Sessile Invertebrates													
Barnacles													
<i>Balanus amphitrite</i>	Very Common	+	+	+	+	+	+	+	+				
<i>Capitulum mitella</i>	Very Common	+	+	+						+	+	+	+
<i>Tetraclita japonica</i>	Very Common	+	+	+						+	+	+	+
<i>Tetraclita squamosa</i>	Very Common	+	+	+		+				+	+	+	+
Bivalves													
<i>Saccostrea cucullata</i>	Very Common	+	+	+		+	+	+	+	+	+	+	+
<i>Septifer virgatus</i>	Very Common	+	+							+	+	+	+
<i>Barbatia virescens</i>	Common									+			+
<i>Perna viridis</i>	Common									+			+
Mobile Invertebrates													
Anemone													
<i>Spheractis cheungae</i>	Common	+	+	+									
Sea Slaters													
<i>Ligia exotica</i>	Common	+	+	+		+	+	+	+	+	+	+	+
Crabs													
<i>Hemigrapsus sanguineus</i>	Common	+											
Chiton													
<i>Acanthopleura japonica</i>	Very Common	+	+	+						+	+	+	+
Limpets/False Limpets													
<i>Cellana grata</i>	Very Common	+	+	+	+	+	+			+	+	+	+
<i>Cellana toreuma</i>	Very Common	+	+							+			+
<i>Patelloida saccharina</i>	Very Common	+	+	+	+	+				+	+	+	+
<i>Patelloida pygmaea</i>	Very Common	+	+	+						+	+	+	+

Species Name	Rarity in Hong Kong	VHR-I1	VHR-I2	VHR-I3	VHR-I4	CBTS-I1	CBTS-I2	CBTS-I3	CBTS-I4	SKO-I1	SKO-I2	SKO-I3	SKO-I4
<i>Siphonaria japonica</i>	Common	+											
<i>Siphonaria laciniosa</i>	Common									+			
Periwinkle													
<i>Littoraria articulata</i>	Common	+	+	+	+	+	+	+	+	+	+	+	+
<i>Echinolittorina trochoides</i>	Very Common	+				+	+	+	+	+	+	+	+
<i>Echinolittorina radiata</i>	Very Common	+	+	+		+	+	+	+	+	+	+	+
<i>Echinolittorina vidua</i>	Common										+	+	
Whelks													
<i>Thais clavigera</i>	Very Common	+	+	+									
Planaxid Snails													
<i>Planaxis sulcatus</i>	Common									+			
Topshells													
<i>Monodonta labio</i>	Very Common									+	+	+	+
Total No. of Species		22	19	15	4	9	7	6	6	21	17	17	19

- A5.8 Total number of species observed at each survey location ranged from 4 to 22. Similar species numbers and intertidal fauna species were recorded at VHR and SKO, except for VHR-I4, which is located within CBTS. Nevertheless, *Corallina* encrusting algae, *Porphyra suborbiculata*, *Balanus Amphitrite*, *Spheractis cheungae*, *Hemigrapsus sanguineus* and *Thais clavigera* were only observed at VHR; whilst, *Kyrtuthrix maculans*, *Barbatia virescens*, *Perna viridis*, *Echinolittorina vidua*, *Planaxis sulcatus* and *Monodonta labio* were only found at SKO. By comparison, distinctively low number of species were recorded within CBTS without any algae present. All species found are common and widespread and no species of note were recorded.
- A5.9 Abundances of intertidal fauna recorded at the survey locations are given in **Table 3 to Table 5**.

Table 3 Intertidal Fauna recorded at VHR in Wet Season

Species Name ⁽²⁾	VHR-I1				VHR-I2				VHR-I3				VHR-I4			
	Q1 ⁽¹⁾	Q2	Q3	Q4	Q1 ⁽¹⁾	Q2	Q3	Q4	Q1 ⁽¹⁾	Q2	Q3	Q4	Q1 ⁽¹⁾	Q2	Q3	Q4
Encrusting Algae																
<i>Corallina</i> encrusting algae		5%			5%	5%										
<i>Hildenbrandia rubra</i>		5%				1%				5%						
Erect Algae																
<i>Porphyra suborbiculata</i>	5%					1%			5%							
Sessile Invertebrates																
Barnacles																
<i>Balanus amphitrite</i>		15%	5%			5%	2%			5%	1%			5%	5%	
<i>Capitulum mitella</i>		1%				1%				1%						
<i>Tetraclita japonica</i>	5%	5%			5%	5%										
<i>Tetraclita squamosa</i>	10%	5%			5%	5%			2%							
Bivalves																
<i>Saccostrea cucullata</i>	20%	5%			30%	5%			40%	20%						
<i>Septifer virgatus</i>	5%															
Mobile Invertebrates																
Anemone																
<i>Spheractis cheungae</i>	1				2				2							
Sea Slaters																
<i>Ligia exotica</i>			5	1			7	5			11	5				
Crabs																
<i>Hemigrapsus sanguineus</i>																
Chiton																
<i>Acanthopleura japonica</i>	4	3			3	4			4	1						
Limpets/False Limpets																
<i>Cellana grata</i>			6	1			5	2			11	5				
<i>Cellana toreuma</i>	5	3	2		2	5	7	2		11	5					
<i>Patelloida saccharina</i>	10	3			4	7			2	5	7					

Species Name ⁽²⁾	VHR-I1				VHR-I2				VHR-I3				VHR-I4			
	Q1 ⁽¹⁾	Q2	Q3	Q4	Q1 ⁽¹⁾	Q2	Q3	Q4	Q1 ⁽¹⁾	Q2	Q3	Q4	Q1 ⁽¹⁾	Q2	Q3	Q4
<i>Patelloida pygmaea</i>		12	6			4	11			3	4	7				
<i>Siphonaria japonica</i>		3	1													
Periwinkle																
<i>Littoraria articulata</i>		7	18	29		4	12	15		3	13	15			6	9
<i>Echinolittorina trochoides</i>			5	8												
<i>Echinolittorina radiata</i>		5	15	21		2	15	17		4	8	17				
Whelks																
<i>Thais clavigera</i>	6	1			2	4			5							
Taxa	21				18				16				2			

Note:

(1) Low tide mark – Q1.

(2) For mobile fauna, the survey results are presented in terms of nos. per unit areas. For sessile organisms (such as barnacles, oysters, algae and cyanobacteria), the survey results are presented in terms of estimated percentage cover per fixed area.

Table 4 Intertidal Fauna recorded at CBTS in Wet Season

Species Name ⁽²⁾	CBTS-I1				CBTS-I2				CBTS-I3				CBTS-I4			
	Q1 ⁽¹⁾	Q2	Q3	Q4	Q1 ⁽¹⁾	Q2	Q3	Q4	Q1 ⁽¹⁾	Q2	Q3	Q4	Q1 ⁽¹⁾	Q2	Q3	Q4
Sessile Invertebrates																
Barnacles																
<i>Balanus amphitrite</i>		1%				1%			25%	5%			25%	5%		
<i>Tetraclita squamosa</i>	10%	2%														
Bivalves																
<i>Saccostrea cucullata</i>	25%					2%			10%				10%	1%		
Mobile Invertebrates																
Sea Slaters																
<i>Ligia exotica</i>			1	2				2				1				
Limpets/False Limpets																
<i>Cellana grata</i>			2	1				3								

Species Name ⁽²⁾	CBTS-I1				CBTS-I2				CBTS-I3				CBTS-I4			
	Q1 ⁽¹⁾	Q2	Q3	Q4	Q1 ⁽¹⁾	Q2	Q3	Q4	Q1 ⁽¹⁾	Q2	Q3	Q4	Q1 ⁽¹⁾	Q2	Q3	Q4
<i>Patelloida saccharina</i>	2	4														
Periwinkle																
<i>Littoraria articulata</i>			7	9			15	18			2				3	
<i>Echinolittorina trochoides</i>				27			11	35				13				18
<i>Echinolittorina radiata</i>			15	25				17			3	22			7	16
Taxa	9				7				6				5			

Note:

(1) Low tide mark – Q1.

(2) For mobile fauna, the survey results are presented in terms of nos. per unit areas. For sessile organisms (such as barnacles, oysters, algae and cyanobacteria), the survey results are presented in terms of estimated percentage cover per fixed area.

Table 5 Intertidal Fauna recorded at SKO in Wet Season

Species Name ⁽²⁾	SKO-I1				SKO-I2				SKO-I3				SKO-I4			
	Q1 ⁽¹⁾	Q2	Q3	Q4	Q1 ⁽¹⁾	Q2	Q3	Q4	Q1 ⁽¹⁾	Q2	Q3	Q4	Q1 ⁽¹⁾	Q2	Q3	Q4
Encrusting Algae																
<i>Kyrtuthrix maculans</i>			15%	5%				5%			1%	5%			2%	10%
<i>Hildenbrandia rubra</i>				5%		1%	5%			2%	5%				5%	
Sessile Invertebrates																
Barnacles																
<i>Capitulum mitella</i>				3%		2%										
<i>Tetraclita japonica</i>			10%	50%		1%	5%				3%				10%	5%
<i>Tetraclita squamosa</i>	30%	15%			5%					5%			45%	15%		
Bivalves																
<i>Saccostrea cucullata</i>		10%	5%		5%	25%			20%	10%			20%	15%		
<i>Septifer virgatus</i>	15%	10%			5%				10%	5%			2%			
<i>Barbatia virescens</i>																
<i>Perna viridis</i>	1%															
Mobile Invertebrates																

Species Name ⁽²⁾	SKO-I1				SKO-I2				SKO-I3				SKO-I4			
	Q1 ⁽¹⁾	Q2	Q3	Q4	Q1 ⁽¹⁾	Q2	Q3	Q4	Q1 ⁽¹⁾	Q2	Q3	Q4	Q1 ⁽¹⁾	Q2	Q3	Q4
Sea Slaters																
<i>Ligia exotica</i>				2								2				
Chiton																
<i>Acanthopleura japonica</i>	12	3			5	2			3	4			1	10		
Limpets/False Limpets																
<i>Cellana grata</i>			5	7			8	4			2	5			7	3
<i>Cellana toreuma</i>	2													9		
<i>Patelloida saccharina</i>	15	6			11	3			12	9			18	8		
<i>Patelloida pygmaea</i>		11	5			7	2			5	7			15	7	
<i>Siphonaria laciniosa</i>		5	1													
Periwinkle																
<i>Littoraria articulata</i>	3	15	8			12	5			5	2				1	
<i>Echinolittorina trochoides</i>			18	35			15	28			13	25			18	28
<i>Echinolittorina radiata</i>			19	45		5	19	17			19	27		3	23	36
<i>Echinolittorina vidua</i>					3	8			3	6						
Topshells																
<i>Monodonta labio</i>			5			1										
Taxa	19				16				15				14			

Note:

(1) Low tide mark – Q1.

(2) For mobile fauna, the survey results are presented in terms of nos. per unit areas. For sessile organisms (such as barnacles, oysters, algae and cyanobacteria), the survey results are presented in terms of estimated percentage cover per fixed area.

Dry Season

A5.10 The wet season intertidal surveys were conducted for:

- Mid Victoria Harbour (February 2009)
- Causeway Bay Typhoon Shelter, southeast corner (November 2009)
- Shek O (November 2009)

A5.11 Intertidal fauna found during walk-through search at each survey location are listed in **Table 6**.

Table 6 Intertidal Fauna recorded during Walk-through Survey in Dry Season

Species Name	Rarity in Hong Kong	VHR-I1	VHR-I2	VHR-I3	VHR-I4	CBTS-I1	CBTS-I2	CBTS-I3	CBTS-I4	SKO-I1	SKO-I2	SKO-I3	SKO-I4
Encrusting Algae													
<i>Corallina</i> encrusting algae	Common	+	+	+									
<i>Kyrtuthrix maculans</i>	Common									+	+	+	+
<i>Hildenbrandia rubra</i>	Very Common									+	+	+	+
Erect Algae													
<i>Porphyra suborbiculata</i>	Very Common	+	+										
<i>Ulva</i> sp.	Very Common	+	+	+				+	+	+	+	+	+
Sessile Invertebrates													
Barnacles													
<i>Balanus amphitrite</i>	Very Common	+	+	+	+	+	+	+	+				
<i>Capitulum mitella</i>	Very Common	+	+	+						+	+	+	+
<i>Tetraclita japonica</i>	Very Common	+	+	+						+	+	+	+
<i>Tetraclita squamosa</i>	Very Common	+	+	+		+				+	+	+	+
Bivalves													
<i>Saccostrea cucullata</i>	Very Common	+	+	+		+	+	+	+	+	+	+	+
<i>Septifer virgatus</i>	Very Common	+	+							+	+	+	+
<i>Barbatia virescens</i>	Common									+			+
<i>Perna viridis</i>	Common									+			+
Mobile Invertebrates													
Anemone													
<i>Spheractis cheungae</i>	Common	+	+	+									
Sea Slaters													
<i>Ligia exotica</i>	Common					+	+	+	+	+	+	+	+
Crabs													
<i>Hemigrapsus sanguineus</i>	Common	+											
Chiton													
<i>Acanthopleura japonica</i>	Very Common	+	+	+						+	+	+	+
Limpets/False Limpets													
<i>Cellana grata</i>	Very Common	+	+	+	+	+	+			+	+	+	+
<i>Cellana toreuma</i>	Very Common	+	+							+			+
<i>Patelloida saccharina</i>	Very Common	+	+	+	+	+				+	+	+	+

Species Name	Rarity in Hong Kong	VHR-I1	VHR-I2	VHR-I3	VHR-I4	CBTS-I1	CBTS-I2	CBTS-I3	CBTS-I4	SKO-I1	SKO-I2	SKO-I3	SKO-I4
<i>Patelloida pygmaea</i>	Very Common	+	+	+						+	+	+	+
<i>Siphonaria japonica</i>	Common	+											
<i>Siphonaria laciniosa</i>	Common									+			
Periwinkle													
<i>Littoraria articulata</i>	Common	+	+	+	+	+	+	+	+	+	+	+	+
<i>Echinolittorina trochoides</i>	Very Common					+	+	+	+	+	+	+	+
<i>Echinolittorina radiata</i>	Very Common	+	+	+		+	+	+	+	+	+	+	+
<i>Echinolittorina vidua</i>	Common										+	+	
Whelks													
<i>Thais clavigera</i>	Very Common	+	+	+									
Planaxid Snails													
<i>Planaxis sulcatus</i>	Common									+			
Topshells													
<i>Monodonta labio</i>	Very Common									+	+	+	+
Total No. of Species		20	18	15	4	9	7	7	7	22	18	18	20

- A5.12 Findings similar to wet season surveys were recorded in dry season. Total number of species observed at each survey location ranged from 4 to 22. Similar species numbers and intertidal fauna species were recorded at VHR and SKO, except for VHR-I4, which is located within CBTS. Nevertheless, *Corallina* encrusting algae, *Porphyra suborbiculata*, *Spheractis cheungae*, *Hemigrapsus sanguineus*, *Siphonaria japonica* and *Thais clavigera* were only observed at VHR; whilst, *Kyrtuthrix maculans*, *Hildenbrandia rubra*, *Barbatia virescens*, *Perna viridis*, *Siphonaria laciniosa*, *Echinolittorina vidua*, *Planaxis sulcatus* and *Monodonta labio* were only found at SKO. By comparison, distinctively low number of species were recorded within CBTS without any algae present. All species found are common and widespread and no species of note were recorded.
- A5.13 Abundances of intertidal fauna recorded at the survey locations are given in **Table 7 to Table 9**.

Table 7 Intertidal Fauna recorded at VHR in Dry Season

Species Name ⁽²⁾	VHR-I1				VHR-I2				VHR-I3				VHR-I4			
	Q1 ⁽¹⁾	Q2	Q3	Q4	Q1 ⁽¹⁾	Q2	Q3	Q4	Q1 ⁽¹⁾	Q2	Q3	Q4	Q1 ⁽¹⁾	Q2	Q3	Q4
Encrusting Algae																
<i>Corallina</i> encrusting algae		5%				3%										
Erect Algae																
<i>Porphyra suborbiculata</i>	15%								5%							
<i>Ulva</i> sp.	20%	1%			15%	5%			10%							
Sessile Invertebrates																
Barnacles																
<i>Balanus amphitrite</i>		1%	1%			1%			5%	1%			2%	1%		
<i>Capitulum mitella</i>		1%				1%			1%							
<i>Tetraclita japonica</i>	5%	5%			5%											
<i>Tetraclita squamosa</i>	10%	1%			10%	2%			2%							
Bivalves																
<i>Saccostrea cucullata</i>	15%	5%			25%	5%			40%	20%						
<i>Septifer virgatus</i>	5%															
Mobile Invertebrates																
Anemone																
<i>Spheractis cheungae</i>	3				2				2							
Chiton																
<i>Acanthopleura japonica</i>	3	2			2	3			4	1						
Limpets/False Limpets																
<i>Cellana grata</i>			8	2		2	7	1			11	5				
<i>Cellana toreuma</i>	11				5	1	9			11	5					
<i>Patelloida saccharina</i>	15				7	2			7	1						
<i>Patelloida pygmaea</i>		14	8			3	14									
<i>Siphonaria japonica</i>		4														
Periwinkle																
<i>Littoraria articulata</i>		3	21	19			13	21			17	23			2	7
<i>Echinolittorina radiata</i>		2	18	17			11	14			5	11				
Whelks																

Species Name ⁽²⁾	VHR-I1				VHR-I2				VHR-I3				VHR-I4			
	Q1 ⁽¹⁾	Q2	Q3	Q4	Q1 ⁽¹⁾	Q2	Q3	Q4	Q1 ⁽¹⁾	Q2	Q3	Q4	Q1 ⁽¹⁾	Q2	Q3	Q4
<i>Thais clavigera</i>	2				1				5							
Taxa	19				16				14				2			

Note:

(1) Low tide mark – Q1.

(2) For mobile fauna, the survey results are presented in terms of nos. per unit areas. For sessile organisms (such as barnacles, oysters, algae and cyanobacteria), the survey results are presented in terms of estimated percentage cover per fixed area.

Table 8 Intertidal Fauna recorded at CBTS in Dry Season

Species Name ⁽²⁾	CBTS-I1				CBTS-I2				CBTS-I3				CBTS-I4			
	Q1 ⁽¹⁾	Q2	Q3	Q4	Q1 ⁽¹⁾	Q2	Q3	Q4	Q1 ⁽¹⁾	Q2	Q3	Q4	Q1 ⁽¹⁾	Q2	Q3	Q4
Sessile Invertebrates																
Erect Algae																
<i>Ulva</i> sp.										1%				1%		
Barnacles																
<i>Balanus amphitrite</i>		1%				1%			24%	5%			25%	6%		
<i>Tetraclita squamosa</i>	10%	3%														
Bivalves																
<i>Saccostrea cucullata</i>	25%					3%			12%				10%	5%		
Mobile Invertebrates																
Sea Slaters																
<i>Ligia exotica</i>				1								1	2			
Limpets/False Limpets																
<i>Cellana grata</i>			3	2			1	2								
<i>Patelloida saccharina</i>	4	2														
Periwinkle																
<i>Littoraria articulata</i>			5	15			11	12			1	1			3	2
<i>Echinolittorina trochoides</i>			4	19			7	21			2	9			5	14
<i>Echinolittorina radiata</i>			7	15			7	15			5	16			8	11
Taxa	9				6				7				6			

Note:

- (1) Low tide mark – Q1.
 (2) For mobile fauna, the survey results are presented in terms of nos. per unit areas. For sessile organisms (such as barnacles, oysters, algae and cyanobacteria), the survey results are presented in terms of estimated percentage cover per fixed area.

Table 9 Intertidal Fauna recorded at SKO in Dry Season

Species Name ⁽²⁾	SKO-I1				SKO -I2				SKO -I3				SKO -I4			
	Q1 ⁽¹⁾	Q2	Q3	Q4	Q1 ⁽¹⁾	Q2	Q3	Q4	Q1 ⁽¹⁾	Q2	Q3	Q4	Q1 ⁽¹⁾	Q2	Q3	Q4
Encrusting Algae																
<i>Kyrtuthrix maculans</i>			15%	5%				5%			2%	5%			3%	10%
<i>Hildenbrandia rubra</i>				5%		2%	5%			2%	6%				5%	
Erect Algae																
<i>Ulva</i> sp.			1%												1%	
Sessile Invertebrates																
Barnacles																
<i>Capitulum mitella</i>				5%		2%										
<i>Tetraclita japonica</i>			10%	50%		2%	5%				3%				10%	10%
<i>Tetraclita squamosa</i>	35%	10%			5%								45%	16%		
Bivalves																
<i>Saccostrea cucullata</i>		10%	5%		6%	20%			20%	10%			20%	15%		
<i>Septifer virgatus</i>	15%	10%			5%				10%	6%			5%			
<i>Perna viridis</i>	1%															
Mobile Invertebrates																
Sea Slaters																
<i>Ligia exotica</i>									2							
Chiton																
<i>Acanthopleura japonica</i>	8	4			7	3			6	1			7	5		
Limpets/False Limpets																
<i>Cellana grata</i>			4	5			3	2			2	3			5	4
<i>Cellana toreuma</i>	3	2											1	7		
<i>Patelloida saccharina</i>	9	5			10	7			9	7			13	7		
<i>Patelloida pygmaea</i>		7	7			3	4			9	5			9	6	
<i>Siphonaria laciniosa</i>		4	3													

Species Name ⁽²⁾	SKO-I1				SKO -I2				SKO -I3				SKO -I4			
	Q1 ⁽¹⁾	Q2	Q3	Q4	Q1 ⁽¹⁾	Q2	Q3	Q4	Q1 ⁽¹⁾	Q2	Q3	Q4	Q1 ⁽¹⁾	Q2	Q3	Q4
Periwinkle																
<i>Littoraria articulata</i>		9	7			9	3			5	3			2	5	
<i>Echinolittorina trochoides</i>			15	25			16	21			14	19			19	25
<i>Echinolittorina radiata</i>			9	30		1	21	15			15	21			17	28
<i>Echinolittorina vidua</i>					7	9			2	10						
Planaxid Snails																
<i>Planaxis sulcatus</i>			5													
Topshells																
<i>Monodonta labio</i>			2			2									3	
Taxa	21				16				14				16			

Note:

(1) Low tide mark – Q1.

(2) For mobile fauna, the survey results are presented in terms of nos. per unit areas. For sessile organisms (such as barnacles, oysters, algae and cyanobacteria), the survey results are presented in terms of estimated percentage cover per fixed area.

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