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Data Source Shoreline Typ GeoBC Coas	:)e .tal Resource Shor	ezone Database, 2008	
Base Informa 1:20,000 Geo Management	tion BC Terrain Resou (TRIM) Database	rce Information	
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Legend			Mobile/Partially Mobile Substrates
Legend • Uni	Break Points		── 6 - Sand & Gravel - CC 24-26_32 -SP
Legend O Unit O Unit Immobile	t Break Points lefined Substrates		 6 - Sand & Gravel - CC 24-26, 32 -SP 7 - Sand & Gravel - CC 24-26,32 - VP/P
Legend Onit Unit Unit Immobile 1 - 1 2 - 1	t Break Points lefined Substrates 3edrock - CC 1- 3edrock - CC 1-	-20 - VE -20 - E	 6 - Sand & Gravel - CC 24-26, 32 -SP 7 - Sand & Gravel - CC 24-26,32 - VP/P 8 - Estuary or Sand/Mud - CC 27-31 - VP/P/S 9 - Sediment - CC 21 - 30 - SE/E

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5 - Bedrock/Gravel - CC 1-23,33 - P/VP **Tidal Lagoon** 11 - Bedrock or Sediment - CC 35 - VP/P/SP

 CC
 Type

 Rock Shore Types - characterized by a lack of clastic sediments such as gravel or sand.
 Sediment Shore Types - have substrates that have little or no bedcrock cropping out

 1
 Rock Ramp, Wide

 2
 Rock Platform Wide

 3
 Rock Cliff Narrow

 4
 Rock Ramp, Narrow

 5
 Rock Platform Narrow

 Rock and Sediment Shore Types - rock and pockets of clastic sediments

 6
 Ramp with Gravel Beach Wide

 21
 Gravel Flat, Wide

 22
 Gravel Beach

 23
 Gravel Flat or Fan

 24
 Sand and Gravel Flat or Fan, Wide

 25
 Sand and Gravel Beach

 26
 Sand and Gravel Beach
 26 Sand and Gravel Flat or Fan, Narrow 27 Sand Beach, Wide

28 Sand Flat

29 Mud Flat
 29 Mud Flat
 30 Sand Beach, Narrow
 31 Estuaries
 Man-Made Materials
 32 Man-made, permeable
 33 Man-made, impermeable
 Current Dominated

Current Dominated

34 Channel 35 Tidal Lagoon

6 Ramp with Gravel Beach, Wide

7 Platform with Gravel Beach, Wide
8 Cliff with Gravel Beach
9 Ramp with Gravel Beach, Narrow
10 Platform with Gravel Beach, Narrow
11 Ramp with Sand and Gravel Beach, Wide
12 Platform with Sand and Gravel Beach, Wide
13 Cliff with Sand and Gravel Beach, Wide
14 Ramp with Sand and Gravel Beach, Narrow
15 Platform with Sand and Gravel Beach, Narrow
16 Ramp with Sand Beach, Wide
17 Platform with Sand Beach, Wide
18 Cliff with Sand Beach
19 Ramp with Sand Beach
19 Ramp with Sand Beach, Narrow
20 Platform with Sand Beach, Narrow

7 Platform with Gravel Beach, Wide

features.

• the biobands observed,

Wave Exposure



SE - Semi Exposed - High wave exposure, open shorelines, areas between fully exposed and more sheltered, usually fetches 50 to 500km P - Protected - Low wave expsoure, sheltered inlets, usually fetches less than 10km SP - Semi Protected - Moderate wave expsoure, partly sheltered, usually fetches 10-50km

Table MIDCO The Species/ w	AST and NORTH C vave exposure/ subst	COAST project area v trate table for Habita	vhich includes BIO_AF t Classification (HAB_0	REAS CC, JS and NC. DBS)., for the Mid-co	ast BC study area, fro	om Johnstone Strait/C	Central Coast Ma	pping Region	s 5, 6 and 7.	
SUBSTRATE STABILITY	IMMOBILE SUBSTRATES				MOBILE OR PARTIALLY MOBILE SUBSTRATES				CURRENT- DOMI- NATED	TIDAL IAGOON
MAJOR SUBSTRATE	BEDROCK	BEDROCK/BOULDER	BEDROCK/GRAVEL	BEDROCK/GRAVEL	SAND & GRAVEL	SAND & GRAVEL	SAND/MUD	SEDIMENT	BEDROCK OR SEDIMENT	BEDROCK OR SEDIMENT
COASTAL CLASSES	1-20	1-23, 32, 33	1-23, 33	1-23, 33	24 – 30, 32 no SAL band	24 – 30, 32 no SAL band	24 - 30, 31 has SAL band	24-30	34	35
EXPOSURE (EXP BIO)	Е	SE	SP	VP, P	SP	VP, P	VP, P, SP	SE, E	VP, P, SP	VP, P, SP
COMMUNITY CODE (HAB OBS)	2	3	4	5	6	7	8	9	10	11
upper	Verrucaria Balanus glandula	Verrucaria Enteromorpha Balanus glandula	Verrucaria Enteromorpha Balanus glandula	Verrucaria Enteromorpha Balanus glandula	Verrucaria Enteromorpha Balanus glandula	Verrucaria Enteromorpha Balanus glandula	grasses & rushes Salicornia virginica Balanus glandula			Balanus glandula
middle	Pollicipes polymerus Mytilus californianus Semibalanus carriosus	Fucus distichus Mytilus californianus Semibalanus carriosus	Fucus distichus Mytilus trossulus* Semibalanus carriosus Ulva/ Ulvaria spp.	Fucus distichus Mytilus trossulus * Ulva/ Ulvaria spp.	Fucus distichus Semibalanus carriosus Ulva/ Ulvaria spp.	Fucus distichus Ulva/ Ulvaria spp.	Fucus distichus Mytilus trossulus** Ulva/ Ulvaria	no visible macrobiota due to sediment mobility	tidal current dominated; may be a Protected wave exposure but shows an assemblage of	Fucus distichus ponded water in lagoon creates
mid/low	Alaria 'nana' morph	Hedophyllum sessile Phyllospadix scouleri							indicator species from higher wave exposures. Assemblage	narrow intertidal and a reduced biota in brackish water, may have
lower	Lessoniopsis littoralis Lithothamnion	Alaria 'marginata' morph Lithothamnion	Laminaria groenlandica Laminaria saccharina Alaria 'marginata' morph Lithothamnion	Laminaria saccharina	Laminaria groenlandica Laminaria saccharina Alaria 'marginata' morph Lithothamnion	Laminaria saccharina			observed is 'anomalous' for the wave energy of the site.	associated current dominated at outflow
subtidal	Nereocystis luetkeana	Nereocystis Inetkeana Macrocystis integrifolia Agarum spp. Strongylocentrotus franciscanus	Nereocystis luetkeana Macrocystis integrifolia Agarum spp. Strongylocentrotus franciscanus Zostera marina	Macrocystis integrifolia Agarum spp. Zostera marina	Nereocystis luetkeana Macrocystis integrifolia Agarum spp. Strongylocentrotus franciscanus Zostera marina	Macrocystis integrifolia Agarum spp. Zostera marina	Zostera marina			

