Data Source: Shoreline Type GeoBC Coastal Resource Shorezone Database, 2008 Base Information 1:20,000 GeoBC Terrain Resource Information Management (TRIM) Database 1:20,000 0 0.25 0.5 1 Kilometers		
Legend		
 Unit Break Points 	Mobile/Partially Mobile Substrates	
── Undefined	6 - Sand & Gravel - CC 24-26, 32 -SP	
Immobile Substrates	7 - Sand & Gravel - CC 24-26,32 - VP/P	The Habitat Type
1 - Bedrock - CC 1-20 - VE	8 - Estuary or Sand/Mud - CC 27-31 - VP/P/SP	been mapped. Th
2 - Bedrock - CC 1-20 - E	✓ 9 - Sediment - CC 21 - 30 - SE/E	Each Habitat Type Semi-exposed Jrr
3 - Bedrock/Boulder - CC 1-23, 32, 33 - SE	Current Dominated	biobands and indi
4 - Bedrock/Gravel - CC 1-23, 33 - SP	10 - Bedrock or Sediment - CC 34 - VP/P/SP	How is Habitat Typ Each Habitat Type
5 - Bedrock/Gravel - CC 1-23,33 - P/VP	Tidal Lagoon	To determine the l
	11 - Bedrock or Sediment - CC 35 - VP/P/SP	2. □assigns a bio-(
СС Туре	CC Type	4.□assigns the Ha
Rock Shore Types - characterized by a lack of clastic sediments such as gravel or sa	nd. Sediment Shore Types - have substrates that have little or no bedcrock cropping out	
2 Rock Platform Wide	22 Gravel Beach	The Habitat Type
3 Rock Cliff Narrow	23 Gravel Flat or Fan	detailed across-sr
5 Rock Platform Narrow	25 Sand and Gravel Beach	Habitat Type is a s
Rock and Sediment Shore Types - rock and pockets of clastic sediments	26 Sand and Gravel Flat or Fan, Narrow	•⊡the biobands of
6 Ramp with Gravel Beach, Wide 7 Platform with Gravel Beach, Wide	27 Sand Beach, Wide	• □the wave expos
8 Cliff with Gravel Beach	29 Mud Flat	• the substrate ty
9 Ramp with Gravel Beach, Narrow	30 Sand Beach, Narrow	Legend Definition
11 Ramp with Sand and Gravel Beach, Wide	Man-Made Materials	CC - Coastal Clas
12 Platform with Sand and Gravel Beach, Wide	32 Man-made, permeable	
13 Cliff with Sand and Gravel Beach 14 Ramp with Sand and Gravel Beach. Narrow	S3[Man-made, Impermeable	Wave Exposure
15 Platform with Sand and Gravel Beach, Narrow	34 Channel	
16 Ramp with Sand Beach, Wide	35 Tidal Lagoon	SE - Semi Expose
18 Cliff with Sand Beach		P - Protected - Lo
19 Ramp with Sand Beach, Narrow		SP - Semi Protect
201Platform with Sand Beach, Narrow		VP - Very Protecte

103G.057



S T R A I T

103G.047

Shoreline Habitat

t Type provides a simplified picture of the "look" of the unit overall, based on the detailed biophysical attributes that have ed. The Habitat Type category is a summary of the observations of both the unit's biologial and geomorphological at Type has a definition that includes the typical substrate, wave exposure and biobands. For example, for the ed, Immobile substrate Habitat Type, part of the definition of that class is a certain combination of the most likely ind indictor species present at a bedrock shoreline with no mobile sediment present.

itat Type determined? at Type has typical biological features (including both an indicator species list and typical associated biobands). the biservations of the biobands in the unit and looks for indicator species,

a bio-(wave) exposure category, the physical mapped information, and the Habitat Type that best describes the unit.

t Type is based on the whole unit and is similar to the physical mappers use of the 'Coastal Class' category, in that the ross-shore data are summarized into one attribute. The simplified category describes the features of the whole unit.

e is a summary of the biophysical classification of the whole shore unit, based on: nds observed,

exposure as indicated by the bands, and rate types in the unit.

finitions al Classification number

E - Exposure E - Exposed - Very high wave exposure, open ocean swellsm usually fetches >500km VE - Very Exposed - Extreme high 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 VP - Very Protected - Very low wave exposure, fethces < 1km, sheltered anchorages at heads of bays and inletes

Table MIDCO The Species/ v	OAST and NORTH C vave exposure/ subst	COAST project area v trate table for Habitat	which includes BIO_AF t Classification (HAB_0	REAS CC, JS and NC OBS)., for the Mid-co	ast BC study area, fro	om Johnstone Strait/G	Central Coast Ma	pping Region	s 5, 6 and 7.	
SUBSTRATE STABILITY	E 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 Fucus distichus	Verrucaria Enteromorpha Balanus glandula Fucus distichus	Verrucaria Enteromorpha Balanus glandula Eucus distichus	Verrucaria Enteromorpha Balanus glandula Fucus distichus	Verrucaria Enteromorpha Balanus glandula Fucus distichus	grasses & rushes Salicornia virginica Balanus glandula Fucus distictus	no visible	tidal current	Balanus glandula Fucus di tichus
middle	Pollicipes polymerus Mytilus californianus Semibalanus carriosus	Mytilus californianus Semibalanus carriosus	Mytilus trossulus* Semibalanus carriosus Ulva/ Ulvaria spp.	Mytilus trossulus * Ulva/ Ulvaria spp.	Semibalanus carriosus Ulva/ Ulvaria spp.	Ulva/ Ulvaria spp.	Mytilus trossulus" Ulva/ Ulvaria	movisible hdard macrobiota domin due to be a F sediment wave mobility but sl assen	dominated; may be a Protected wave exposure but shows an assemblage of	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 Lithothannion	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 luetkeana 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			



