Conservation Options

- 1. Methodology
- 2. Priority Conservation Area (PCA) categories
- 3. Current and future human use within PCAs

To identify priority conservation areas we conducted a two-part analysis: 1.) identify areas of high ecological value, and 2.) overlay these areas with existing or future human activities to identify conservation needs and opportunities. This document outlines the methods associated with part 1.).

1. Overlay areas of high ecological value with current and future human activities to identify conservation needs and opportunities

Part 1 of our analysis identified areas of high marine ecological value in Atl'ka7tsem/Howe Sound. Many of these areas overlap with existing human activity and are therefore not suitable for formal conservation protection (e.g. marine protected areas). However, these areas present excellent opportunities for employing best management and stewardship practices. Accordingly, CORI and DSF staff conducted an assessment of current and future human activities to categorize the high ecological areas into the following groups:

Category Blue

Criteria:

- i. High ecological value
- ii. Insufficient current protection
- iii. Minimal current and future human activity, use and development

Outcomes:

i. Promote marine protection (e.g. no-take marine reserve, marine protected area designation, other effective area-based conservation measurements Category Green

Criteria:

- i. High ecological value
- ii. Existing or potential future medium to high human use, activity and development

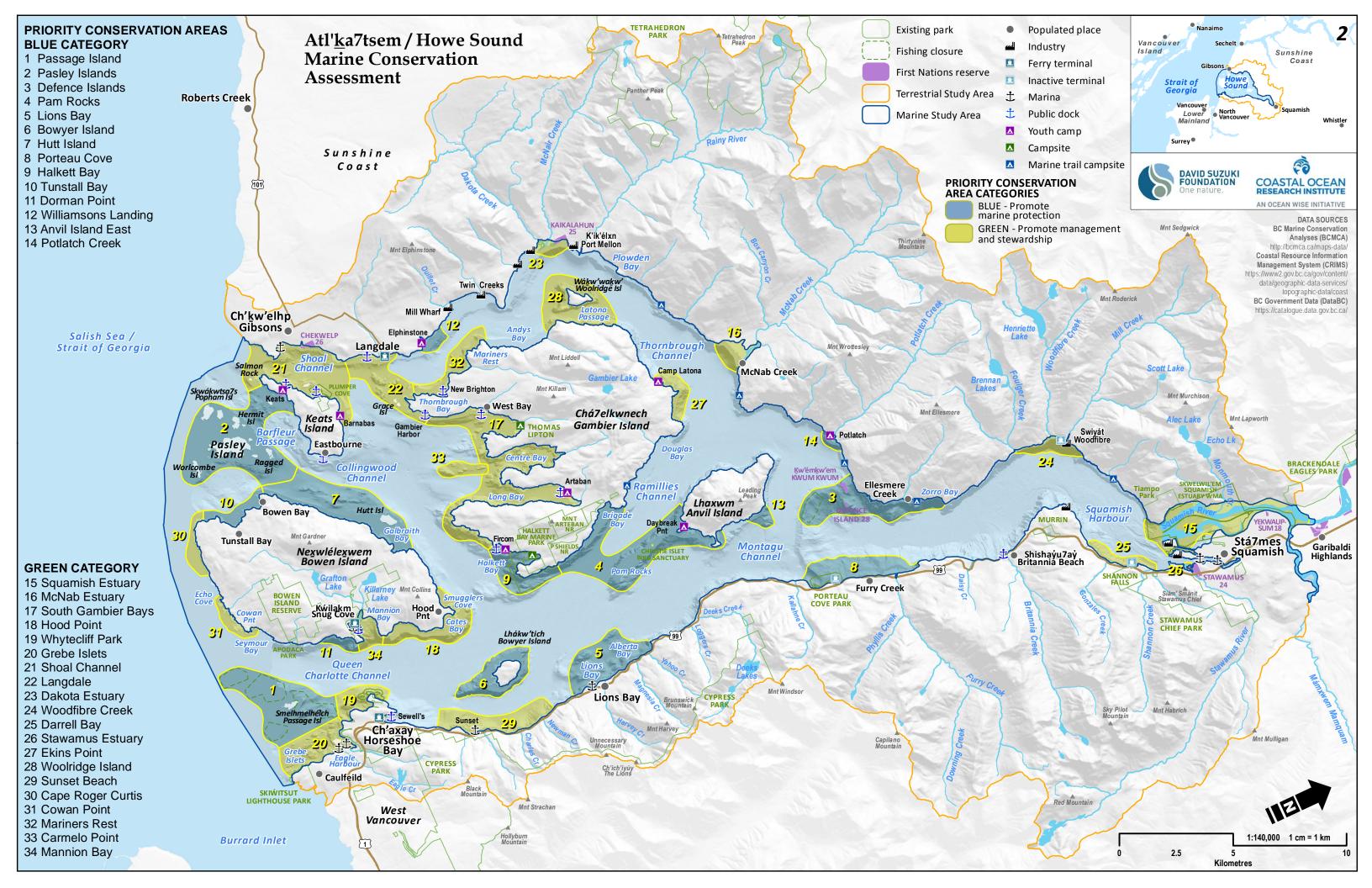
Outcomes:

i. Promote management and stewardship best practices and ecosystem restoration

Given these criteria points, assigning a category depended not only on the ecological attributes present, but also the existing and potential future development proposed for the area. Accordingly, some regions (e.g. McNab creek), which are rich in estuarine values, were assigned Category Green given that there is an industrial tenure in the estuary. Lions Bay, however, was designated as a Category Blue given that the glass sponge reefs and rockfish habitat in this area do not conflict with existing tenures.

Our intent with this analysis is to ensure that all identified areas of high ecological value have the opportunity to catalyze conservation action. Category blue areas offer excellent opportunity for formal protection of ecological values and attributes that may be threatened by present and potential future human activities. Category green areas where humans live and work are excellent opportunities to employ best practices to reverse harm, restore ecosystem health, and protect socio-ecological systems.

The following map book outlines the areas of high ecological value and their associated categories (blue or green). We look forward to receiving input on our above analysis. Please note that we are open to continual revision of our threats assessment and welcome your feedback.



		DEVELOPMENT											RECREATION					RESIDENTIAL / AGRICULTURAL					
	PRIORITY CONSERVATION AREAS	EAO Footprint	Proposed Cargo Route	Cargo		Transmission Line	ВСМРІ	Industry	Private dock	Mineral deposit	Mineral tenure		density	Crown to	enure	Anchorage / Moorage	Marina / Public dock	Private dock	Youth camp	ALR	Private land	Municipality	Water licenses
		% of PCA	Km within PCA			Location		Location	% of PCA	High, % of PCA	Very high, % of PCA	% OF PCA	#		Location		Hal	% of PCA (terrestrial)	% of PCA	#			
#										BLUI	E CATE	ORY											
1	Passage Island		2.4									69	15	0.8	8			15			75	0	
2	Pasley Islands		0.8							1		24	4	0.4	11			30			39	0	2
3	Defense Islands					0.01						27		3.6	4	3		1	1		24		17
4	Pam Rocks		1.4							1		32		0.1	3			6	2		95		11
5	Lions Bay									1		18		0.4	3						46	25	2
6	Bowyer Island											43		0.3	2			16			79		7
7	Hutt Island		2.5							1		42	4	0.3	16		1	27			52		56
8	Porteau Cove						1			1	10			0.4	6	5		1			45		2
9	Halkett Bay											34		0.2	6	3	1	5	2		59		11
10	Tunstall Bay											6		5.6	28			17			98	94	21
11	Dorman Point											20		12	2			2			64	91	11
12	Williamsons Landing											25		1.4	2	7		4	1	2	93	43	32
13	Anvil Island East																						
14	Potlatch Creek													0.7	1	1		1	1		90		
#										GREE	N CATE	GORY											
15	Squamish Estuary				11	1.5		2	10		0.4	9		4.6	13	17				86	1	99	1
16	McNab Estuary	36	1.5			0.9				3	75			8.5	3	6		2			83		5
17	South Gambier Bays									1		27		1.9	59	37	3	138	2	12	95		138
18	Hood Point		0.4									46	9	0.4	12			20			99	70	88
19	Whytecliff Park						1					65	21	59	8						56	63	
20	Grebe Islets											53	33	34	13	2	2				55	47	
21	Shoal Channel											57			119	10	4	66	2		66	13	63
22	Langdale		1.4	3						1		38	19	1.6		1	3	9			85		25
	Dakota Estuary							2	2	1		17		37	4	18					24		3
24	Woodfibre Creek	54	0.6			0.07		1						79	4	7					45	66	2
25	Darrell Bay										24			14.9	5	8					36	96	
26	Stawamus Estuary						1									3					21	100	1
27	Ekins Point													5.3	13		1	9	1		64		3
28	Woolridge Island		1									51	6	11	4						94		
29	Sunset Beach										_	25		14	16	1	1				45	18	25
30	Cape Roger Curtis											57		2.2	6			2			99	77	9
31	Cowan Point											24		0.2				3			97	96	44
32	Mariners Rest											48	13	9		6	1	13			82		20
33	Carmello Point										_	83											
34	Mannion Bay			1								39	24	42	19	4	2	26			58	94	3

ARL - Agricultural Land Reserve

BC - British Columbia

BCMPI - BC Major Projects Inventory

BC EAO - BC Environmental Assessment Office

Ha - Hectare

- Number

BLUE CATEGORY								
PCA	#	PURPOSE	#	SUBPURPOSE	#			
Bowyer Island	3	RESIDENTIAL	3	PRIVATE MOORAGE	3			
		INDUSTRIAL	2	LOG HANDLING/STORAGE	2			
Defense Islands	4	RESIDENTIAL	1	PRIVATE MOORAGE	1			
isiailus		UTILITY	1	ELECTRIC POWER LINE	1			
Dorman Point	2	UTILITY	2	ELECTRIC POWER LINE	2			
Halkett Bay	4	RESIDENTIAL	5	PRIVATE MOORAGE	5			
Halkett Bay	6	TRANSPORTATION	1	PUBLIC WHARF	1			
		RESIDENTIAL	14	PRIVATE MOORAGE	13			
Hutt Island	1/			RECREATIONAL RESIDENTIAL	1			
Hutt Island	16	TRANSPORTATION	1	PUBLIC WHARF	1			
		UTILITY	1	TELECOMMUNICATION LINE	1			
		COMMERCIAL	1	MARINA	1			
Lions Bay	3	RESIDENTIAL	1	PRIVATE MOORAGE	1			
		TRANSPORTATION	1	RAILWAY	1			
Pam Rocks	3	RESIDENTIAL	3	PRIVATE MOORAGE	3			
	11	INSTITUTIONAL	1	PUBLIC WORKS	1			
Pasley Islands		RESIDENTIAL	6	PRIVATE MOORAGE	6			
isiailus		UTILITY	4	TELECOMMUNICATION LINE	4			
		COMMERCIAL	1	COMMERCIAL A	1			
Passage Island	9	RESIDENTIAL	7	PRIVATE MOORAGE	6			
isiana		UTILITY	1	ELECTRIC POWER LINE	1			
		COMMERCIAL	1	COMMERCIAL B	1			
Porteau	,			ELECTRIC POWER LINE	1			
Cove	6	UTILITY	5	MISCELLANEOUS	1			
				SEWER/EFFLUENT LINE	3			
Potlatch Creek	1	UTILITY	1	ELECTRIC POWER LINE	1			
		COMMERCIAL	2	COMMERCIAL B	2			
		COMMUNITY	1	COMMUNITY FACILITY	1			
		INSTITUTIONAL	1	MISCELLANEOUS	1			
Tunstall Bay	28	DECIDENTIAL	10	PRIVATE MOORAGE	17			
Бау		RESIDENTIAL	19	THERMAL LOOPS	2			
		LITH ITY	-	TELECOMMUNICATION LINE	4			
		UTILITY	5	WATER LINE	1			
Williamsons	_	RESIDENTIAL	1	PRIVATE MOORAGE	1			
Landing	2	INDUSTRIAL	1	LOG HANDLING/STORAGE	1			

GREEN CATEGORY													
PCA	#	PURPOSE	#	SUBPURPOSE	#	PCA	#	PURPOSE	#	SUBPURPOSE	#		
Cape		RESIDENTIAL	4	PRIVATE MOORAGE	4	4		COMMERCIAL	3	MARINA	2		
Rodger Curtis	6	TRANSPORTATION	1	NAVIGATION AID						PRIVATE YACHT CLUB	1		
		UTILITY	1	TELECOMMUNICATION LINE	1			INDUSTRIAL	2	LOG HANDLING/STORAGE	2		
Cowan Point		RESIDENTIAL	3	PRIVATE MOORAGE	3	South				MISCELLANEOUS	3		
	5	TRANSPORTATION	TRANSPORTATION 1 NAVIGATION AID		1	Gambier Bays	59	RESIDENTIAL	51	PRIVATE MOORAGE	42		
		NAVIGATION AID	1	SEWER/EFFLUENT LINE	1					STRATA MOORAGE	5		
	4	COMMERCIAL	1	COMMERCIAL A	1					THERMAL LOOPS	1		
Dakota		INDUSTRIAL	1	HEAVY INDUSTRIAL	1			TRANSPORTATION	3	NAVIGATION AID	1		
Estuary	Ι.	INSTITUTIONAL	1	MISCELLANEOUS	1			THURSE STATEMENT	Ů	PUBLIC WHARF	2		
		TRANSPORTATION	1	PUBLIC WHARF	1	_		COMMERCIAL	17	COMMERCIAL B	1		
	5	FIRST NATIONS	1	INTERIM MEASURES	1	- - -				MARINA	16		
Darrell		INDUSTRIAL	3	LIGHT INDUSTRIAL	1			COMMUNITY	1	COMMUNITY FACILITY	1		
Bay				LOG HANDLING/STORAGE	2			INDUSTRIAL	4	LIGHT INDUSTRIAL	2		
		UTILITY	1	TELECOMMUNICATION LINE	! '	1		INDOSTRIAL	<u> </u>	LOG HANDLING/STORAGE	2		
		COMMERCIAL	7	COMMERCIAL A & B		3 Shoal				PRIVATE MOORAGE	55		
Ekins	9			PRIVATE YACHT CLUB	4	<u></u>		RESIDENTIAL	64	RURAL RESIDENTIAL	6		
Point		RESIDENTIAL	1	STRATA MOORAGE	1					STRATA MOORAGE	1		
		UTILITY	1	SEWER/EFFLUENT LINE	! '	1				URBAN RESIDENTIAL	2		
		COMMERCIAL 1		COMMERCIAL A	<u> </u>	1		TRANSPORTATION	4	PUBLIC WHARF	4		
Grebe	5	RESIDENTIAL	1	URBAN RESIDENTIAL	1			UTILITY	29	TELECOMMUNICATION LINE	26		
Islets		UTILITY	3	GAS AND OIL PIPELINE	1					ELECTRIC POWER LINE	3		
				SEWER/EFFLUENT LINE	2			INDUSTRIAL	3	LIGHT INDUSTRIAL	1		
Hood	12	RESIDENTIAL 11		PRIVATE MOORAGE	11					LOG HANDLING/STORAGE	2		
Point		INSTITUTIONAL	1	MISCELLANEOUS	1	-		INSTITUTIONAL	3	MISCELLANEOUS	3		
	6	TDANICDODTATION	3	PUBLIC WHARF	2	Squamish	13	TRANSPORTATION		ROADWAY	1		
Langdale		TRANSPORTATION		FERRY TERMINAL	1	Estuary		UTILITY	6	ELECTRIC POWER LINE	2		
		UTILITY	3	ELECTRIC POWER LINE	2					GAS AND OIL PIPELINE	2		
			J	TELECOMMUNICATION LINE	1					SEWER/EFFLUENT LINE	2		
		INDUSTRIAL 2				LOG HANDLING/STORAGE	2	Sunset	16	COMMERCIAL	1	COMMERCIAL A	1
Mariners	10	RESIDENTIAL	5	PRIVATE MOORAGE		Beach		RESIDENTIAL	14	PRIVATE MOORAGE	14		
Rest		TRANSPORTATION	1	PUBLIC WHARF	1			UTILITY	1	SEWER/EFFLUENT LINE	1		
		UTILITY	2	ELECTRIC POWER LINE	2			COMMERCIAL	1	COMMERCIAL A	1		
		COMMERCIAL 2 INSTITUTIONAL 1		MARINA	2	\A/		RESIDENTIAL 1		URBAN RESIDENTIAL	1		
				MISCELLANEOUS	1	Whytecliff Park	8	TRANSPORTATION	1	NAVIGATION AID	1		
Mannion		RESIDENTIAL	12	PRIVATE MOORAGE	11			UTILITY	5	ELECTRIC POWER LINE	3		
Bay	19	RESIDENTIAL	12	THERMAL LOOPS	1				J	TELECOMMUNICATION LINE	2		
2-,		TRANSPORTATION	1	PUBLIC WHARF	1			ENERGY PRODUCTION	1	GAS PROCESSING PLANT	1		
		UTILITY		ELECTRIC POWER LINE	2	Woodfibre	4	INDUSTRIAL	1	HEAVY INDUSTRIAL	1		
		UTILIT	3	SEWER/EFFLUENT LINE	1	Creek	4	MISC. LAND USES	1	CARGO MOORING	1		
		INDUSTRIAL	1	LOG HANDLING/STORAGE	1			UTILITY	1	ELECTRIC POWER LINE	1		
McNab	3	RESIDENTIAL	1	PRIVATE MOORAGE	1						•		
Estuary		UTILITY	1	FLECTRIC POWER LINE	1	1							

UTILITY

1 ELECTRIC POWER LINE