

APPLICATION FOR ECOLOGICAL RESERVE

1. Legal description of the area (or general "Metes and bounds" description)

See Attachment I.

2. Geographical location (relate to nearest settlement, mountain, river, etc.) The Rocky Point area is a peninsula between Becher Bay and Pedder Bay, located on the southern end of Vancouver Island, British Columbia, at approximately $48^{\circ}19.5'N$ latitude and $123^{\circ}34'W$ longitude.

3. Indicate the biogeoclimatic zone of which the reserve is representative.

Rocky Point belongs to the coastal Douglas Fir zone.

4. Approximate total acreage.

5 square miles

5. Purpose of the reserve.

(a) Primary (state acreage)

To preserve an inshore marine area representative of the local fauna of Juan de Fuca Strait. (1 1/3 square miles).

(b) Others if any (state acreage)

Preservation of an area little disturbed by man, with both historic interest and species of biogeoclimatic interest.

(c) Buffer areas (state acreage)

6. Attach a map and indicate: (a) the perimeters and acreage of the areas detailed in 3 above, and
(b) indicate the species and total timber volumes in these areas.

A preliminary list of the intertidal marine algae is given in Attachment II.

Signature D.V. Ellis and D.J. Steele
I.B.P. Surveyor

1a

INTERNATIONAL BIOLOGICAL PROGRAMME
SECTION C: CONSERVATION OF TERRESTRIAL BIOLOGICAL COMMUNITIES

CHECK SHEET (Mark VII) FOR SURVEY OF IBP AREAS*
To be completed with reference to the GUIDE TO THE CHECK SHEET

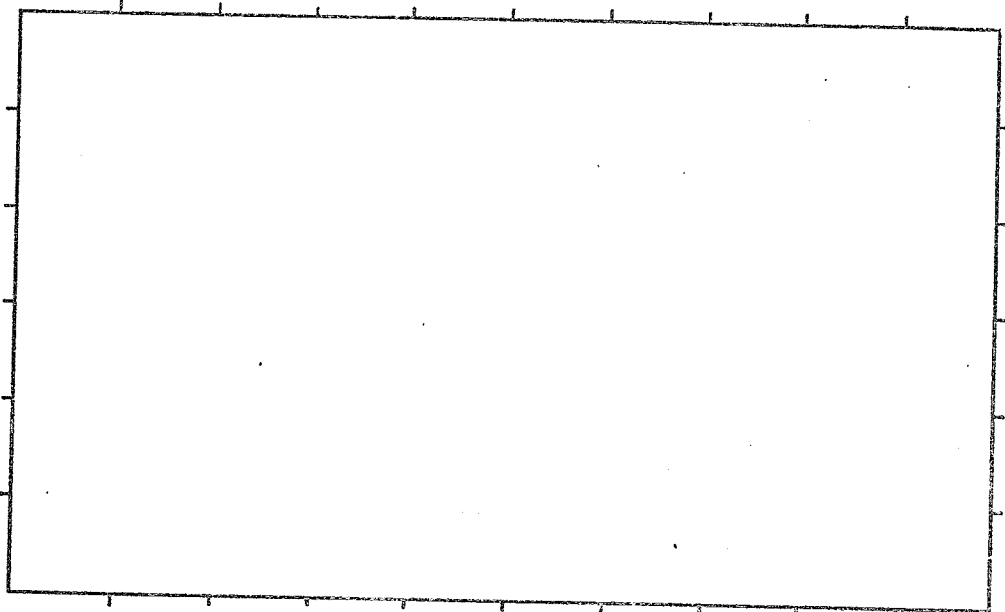
Serial Number

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For Data Centre Use only

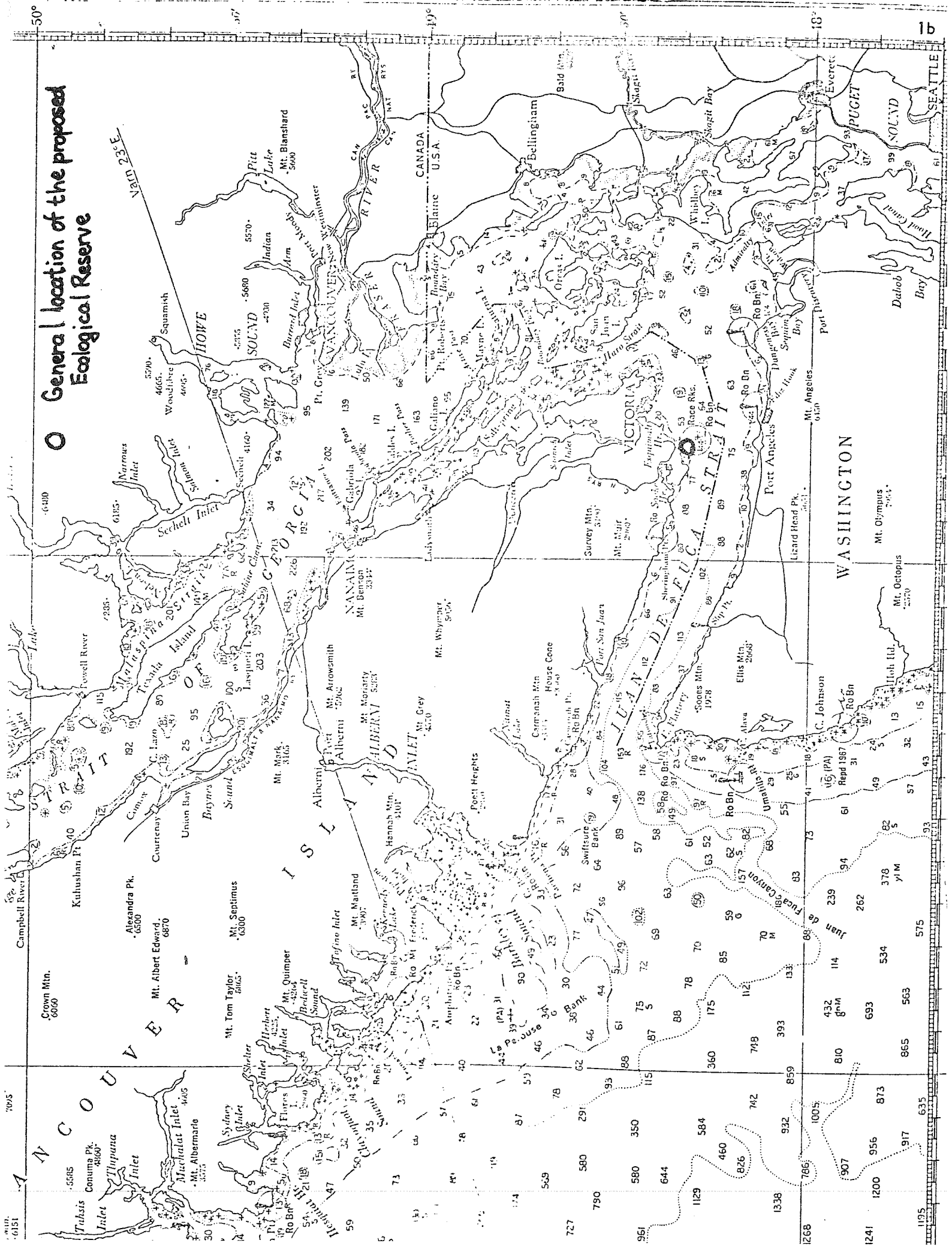
- 1.
1. Name of surveyor ... D.V. Ellis and D.J. Steele
 2. Address of surveyor Department of Biology
 - University of Victoria
 - VICTORIA, B.C.
 3. Check Sheet completed (a) on siteX..... (b) from recordsX.....
 4. Date Check Sheet completed ...July 9, 1974....

- 2.
1. Name of IBP Area ... Rocky Point
 2. Name of IBP Subdivision (or serial letter) -
 3. Map of IBP Area* showing boundaries attached? Yes ...X... No
 4. Sketch map of IBP Area*. Please mark direction of north, the scale and grid numbers where applicable.



* For "IBP Area", read IBP Area and/or IBP Subdivision.

General location of the proposed Ecological Reserve



6151

1b

Attachment I - Description of the Ecological Reserve Area

The Rocky Point Ecological Reserve includes the penninsula between Becher Bay and Pedder Bay and the surrounding intertidal zone, seabed and overlying water column to a depth of 36 feet with all encompassed rocks, reefs, islets and islands.

The north boundary of the area extends from the head of Becher Bay and follows the Becher Bay Indian Reserve Number 1 boundary to a point due west from Watt Point. It then extends due east to Watt Point, and from there southeast to $48^{\circ}19.95'N$ latitude and $123^{\circ}32.6'W$ longitude (presently marked by an offshore buoy), then due south until meeting the 6 fathom (36 foot) depth contour line. The boundary then follows this contour around the penninsula to a point of $48^{\circ}19.9'N$ latitude and $123^{\circ}35.8'W$ longitude, then northeast (30°) to where the Becher Bay Indian Reserve boundary intersects the shoreline of Becher Bay.

The Ecological Reserve includes the Rocky Point Military Reserve however the area extends only to the boundaries of present existing grazing leases on the Military Reserve.* Further, the Reserve excludes the lands of Becher Bay Indian Reserves, numbers 1, 2 and 9 (Large Bedford Island).

The purpose of Ecological Reserve status at this time is to ensure protection in the event of disposition of the Military Reserve by the Federal Government.

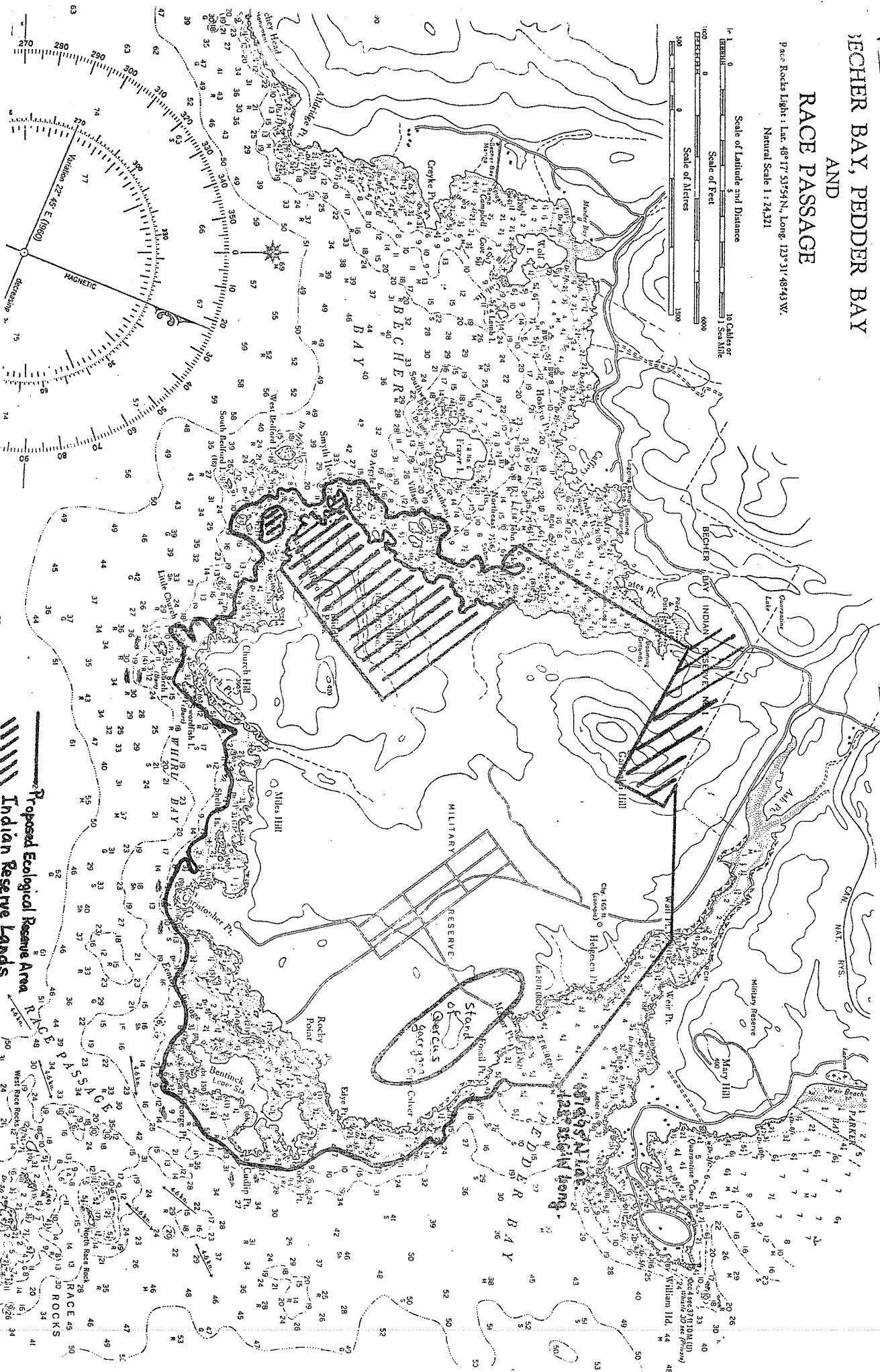
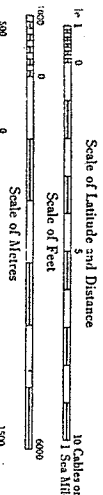
*It is hoped that these grazing leases would lapse on expiry of the existing lease.

Attachment II - Preliminary list of conspicuous intertidal marine algae.

1. *Spongomorpha coalita*
2. *Fucus distichus*
3. *Endocladia muricata*
4. *Corallina vancouveriensis*
5. *Hedophyllum sessile*
6. *Calliarthron regenerans*
7. *Nereocystis leutkeana*
8. *Porphyra perforata*
9. *Monostroma fuscum*
10. *Iridaea cordata*
11. *Gigartina exasperata*
12. *Ulva lactuca*
13. *Cymathere triplicata*
14. *Analipus japonicus*
15. *Leathesia difformis*
16. *Halosaccion glandiforme*
17. *Phyllospadix scouleri*
18. *Rhodomella larix*
19. *Colpomenia peregrina*
20. *Pterosiphonia bipinnata*
21. *Microcladia borealis*
22. *Laminaria saccharina*
23. *Gloiopeltis furcata*
24. *Egregia menziesii*
25. *Prionitis lanceolata*
26. *Codium fragile*
27. *Desmarestia intermedia*
28. *Callophyllis* sp

BECHER BAY, PEDDER BAY AND RACE PASSAGE

Pace Rocks Light : Lat. 48° 17' 55.54" N., Long. 123° 31' 48.943" W.
Natural Scale 1 : 24,321



Proposed Ecological Reserve Area
Indian Reserve Lands

3.

Location of IBP Area*

1. Latitude 48° $19.5'$ N Longitude 123° $34'$ W
 2. Country Canada
 State or Province British Columbia County: Sooke
 (State or Province County)

4.

Administration

National 1. Official category Crown Land
 2. Address of administration Department of National Defence
Canadian Forces Base, Esquimalt
 Formal requests should be addressed to:
Mr. R. Taylor
Base Properties Management Officer
Canadian Forces Base, Esquimalt
Tel. 388-1667

International Class

3.

Included in U.N. List	Rejected from U.N. List	Area with formal conservation status	No formal cons. status
(A)	(B)	(C)	(D) X

5.

Characteristics of IBP Area*

1. Surface area above mean sea level $2 \frac{2}{3}$ square miles
below mean sea level $1 \frac{1}{3}$ square miles
 2. Altitude Maximum 420 Feet
 Depth Maximum 30 Feet

6.

Climate

Nearest climatological station :

1. Name William Head
 2. Climatological station on IBP Area*? Yes No X
 3. If (2) not, distance from edge of IBP Area* (state units) 1 mile
 4. Direction from IBP Area* NE
 5. Additional data sheet attached? Yes No X

7. Vegetation and Soil

1

Vegetation

Community Reference Number	Vegetation Code					Plant communities (give usual name using full Latin names of a species where applicable)	Area (state units)
	Primary Structural Group	Class	Group	Formation	Sub-Formation		
1	1	A	1	7	1	Dry Douglas Fir Zone - <i>Pseudotsuga menziesii</i> , <i>Tsuga heterophylla</i> , <i>Thuja plicata</i> , <i>Arbutus menziesii</i>	
2						<i>Quercus garryana</i>	
3						grassland meadows	
4						marine intertidal zones	
7							
8							
9							
10						A further survey is required.	
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

7.
(cont.)

2

Soil

Community Reference Number	Soil type	Other notes
1		SOIL NOT SURVEYED.
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		

9. Landscape

1. General Landscape (give brief description) a coastal peninsula extending
into Juan de Fuca Strait.

2. Relief Type

	Flat	Undulating (0)-200 m.	Hilly 200-1000 m.	Mountainous > 1000 m.	%
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Sharply dissected					40
Gently dissected					60
Incised					
Skeletonised					
%		100			100%

3. Special landscape features (list)

10. Coastline of IBP Area*

1. Protected bays and/or inlets Many Few None

2. Substratum. % of coast

Rock	Boulder Beach	Cobble Beach	Sand Beach	Shell Beach	Mud	Coral	Ice
~75	~4	~15	~6				

3. Physiography. % of coast

Cliffed	Sloping	Flat
25	50	25

4. Special Coastal Features (list) Islands, Islets, deeply cut troughs,
Sand flats, rip current channels.

5. Tide. Maximum range (state units of measurement) 10 feet

6. Total length of coastline :

Less than 1 km. 1-10 km. Above 10 km.

11. Freshwater within IBP Area*

1.

	Permanent	Intermittent
General	X	
Standing	X	
Running	X	

2. Standing Water

	Permanent	Intermittent	Unproductive	Productive
Swamps	X			X
Ponds				
Lakes				

3. Running Water

	Permanent	Intermittent
Springs, cold	X	
Springs, hot		
Streams		
Rivers		

underground springs are tapped by wells.

4. Special freshwater features

.....

12. Salt and Brackish Water within IBP Area*

Salt Lakes	<input type="checkbox"/>	Lagoon	<input type="checkbox"/>	Ocean	<input checked="" type="checkbox"/>
Estuaries	X	Salt pools	<input type="checkbox"/>	<input type="checkbox"/>

13. Adjacent Water Bodies (not within IBP Area*)

1. Fresh Lake River Stream

2. Salt and Brackish

Estuary	Salt lake	Salt pool	Lagoon	Ocean		
				X		

14. Outstanding Floral and Faunal Features

1. None

2. Fauna

	Species diversity	Abundance of individuals	Superabundance of individuals	Rare species	Threatened/Relict species	Spp. of biogeographical interest	Exceptional Associations	Breeding or Nesting Populations	Migrating Populations	Wintering Populations		
Mammalia		X	(Deer, racoon, etc.)									
Aves		X										
Reptilia												
Amphibia												
Pisces												
Insecta												

3. Names of main threatened, endemic, relict and rare species

.....Fauna should be surveyed later.....

4. Flora

	Species diversity	Abundance of particular species	Rare species	Threatened/relict species	Spp. of biogeographical interest	Exceptional associations	Outstanding specimens				
Angiospermae :											
trees		X			X						
shrubs											
herbs											
grass											
Gymnospermae											
Pteridophyta											
Bryophyta											
Lichens and Algae	X										

5. Names of main threatened, endemic, relict and rare species

Natural stand of *Quercus garryana* (Gary Oak) is located within the
region (Southern Vancouver Island marks its northern extent).

15. Exceptional Interest of IBP Area*

1. The shoreline of the proposed reserve area is of particular interest as it has had little modifying influence by man and provides representative samples of Juan de Fuca Strait for nearly all aspects or degrees of exposure, within a small area.
2. There are some historical Indian grave sites located on the proposed reserve area.

16. Significant Human Impact

1. General : None in entire IBP Area*
 None in part of IBP Area* X
 Impact on entire IBP Area*

2. Particular

	Past impact	Present impact	Trend			
			Increasing	Decreasing	No change	No information
Cultivation						
Drainage						
Other soil disturbance						
Grazing		X			X	(Several grazing leases are in effect)
Selective flora disturbance						
Logging	X			X		(Selective cutting in certain areas)
Plantation						
Hunting		X (by Indians)				
Removal of predators						
Pesticides						
Introductions — plants						
Introductions — animals	X (oysters)					
Fire						
Permanent habitation		X		X		
Recreation and tourism						
Research						
Live ammunition test site		X			X	

3. Additional details on each type of impact attached?

Yes No X

17. Conservation Status

	Protection			Utilisation			Conservation Management			Permitted Research		
	none	partial	total	none	controlled	uncontrolled	none	to alter status	to maintain status	experimental	observational	prohibited
Flora		X			X				X			X
Fauna		X			X				X			X
Non-living		X			X				X			X

18. References

1. List major biological/geographical references for the IBP Area.

Sheet attached? Yes NoX.....

2. List main maps available for the IBP Area.

List attached? Yes NoX... Canadian Hydrographic Series (#3647)

3. Aerial photographs for the IBP Area available?

For whole areaX..... For part of area None

19. Other Relevant Information

The land of the proposed ecological Reserve area is property of the Department of National Defence, being used as an ammunition depot. Presently, the area is sufficiently protected as access to the region is controlled by the base.

Signed D.V.Ellis, D.J.Steele.....
(Surveyor)