

*Heron nesting near Otter Lake*

*see 246*

APPLICATION FOR ECOLOGICAL RESERVE

- 1. Legal description of the area (or general "Metes and bounds" description)
  
- 2. Geographical location (relate to nearest settlement, mountain, river, etc.)

Heron nesting area:  
Near Otter Lake, 9 miles north of Vernon

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

The drier subzone of the Interior Douglas-fir zone (IDFa)

- 4. Approximate total acreage.

30 acres (12 ha)

- 5. Purpose of the reserve.  
Nesting place for great blue heron

(a) Primary (state acreage)  
30 acres

(b) Others if any (state acreage)

-

(c) Buffer areas (state acreage)

-

- 6. Attach a map and indicate: (a) the perimeters and acreage of the areas detailed in 5 above, and (b) indicate the species and total timber volumes in these areas.

Signature T.C. Brayshaw  
T. R. P. Surveyor



3. Location of IBP Area\*

1. Latitude...50°.....° .....24° N, N/S Longitude...119°.....° .....15° W. E/W  
 2. Country ..Canada.....  
 State or Province .....British Columbia..... County .....  
 (State or Province ..... County .....)

4. Administration

National 1. Official category .....Private Land.....  
 2. Address of administration .....  
 .....  
 .....  
 .....

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)

5. Characteristics of IBP Area\*

1. Surface area (state units of measurement) .....ca. 30 acres(12 ha).....  
 2. Altitude (state units of measurement) Maximum .....ca. 1200 feet.(365 m) .....  
 Minimum .....ca. 1150 feet (350 m).....

6. Climate

Nearest climatological station :

1. Name .....  
 2. Climatological station on IBP Area\*? Yes ..... No .X.....  
 3. If (2) not, distance from edge of IBP Area\* (state units) .....9 miles.....(14½ km.).....  
 4. Direction from IBP Area\* .....S.....  
 5. Additional data sheet attached? Yes ..... No .....

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	a	Pseudotsuga menziesii - Thuja plicata - (Betula papyrifera) - Corylus cornuta - Aralia nudicaulis	
<del>2</del>							
<del>X</del> 2	1	A	1	7	a	Pseudotsuga menziesii - Symphoricarpos albus	
<del>X</del> 3	1	A	2	1		Populus spp. - Sambucus glauca - Cornus stolonifera - Urtica lyallii	1 a.
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

Please give information about further communities on a separate sheet.

7.  
(cont.)

2

Soil

Community Reference Number	Soil type	Other notes
1	Silty clay	+ low-lying valley floor near lake. A (B)C F <sub>4</sub>
2	" "	Terrace and slopes. AC - I <sub>2</sub> (-F <sub>3</sub> )
3	" "	Shallow depression affected by heron droppings. AC I <sub>2</sub>
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) ..... Valley floor with shallow depression and gently rising terrace; all on ancient lacustrine deposits.

2. Relief Type

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

3. Special landscape features (list) ..... The shallow depression with associated trees, which is the site of the nests of herons.

10. Coastline of IDP Area\*

1. Protected bays and/or inlets                      Many     Few     None

2. Substratum. % of coast

Rock	Boulder Beach	Shingle Beach	Sand Beach	Shell Beach	Mud	Coral	Ice
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

3. Physiography. % of coast

Cliffed	Sloping	Flat
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

4. Special Coastal Features (list) .....

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

6. Total length of coastline :

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

11. Freshwater within IBP Area\*

1.

	Permanent	Intermittent
General		
Standing		
Running		

2. Standing Water

	Permanent	Intermittent	Unproductive	Productive
Swamps				
Ponds		?		
Lakes				

3. Running Water

	Permanent	Intermittent
Springs, cold		
Springs, hot		
Streams		
Rivers		

4. Special freshwater features Water may stand briefly in small area of  
community #3 after Spring snow-melt.

12. Salt and Brackish Water within IBP Area\*      nil

Salt Lakes	<input type="checkbox"/>	Lagoon	<input type="checkbox"/>	.....	<input type="checkbox"/>
Estuaries	<input type="checkbox"/>	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		



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												
Aves					X			X				
Reptilia												
Amphibia												
Pisces												
Insecta												

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

Great Blue Heron: Ardea herodias

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4. Flora

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

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

.....  
 .....  
 .....

15. Exceptional Interest of IEP Area\*

A heronry: a collection of 16 nests in trees of 4 kinds. Trees bearing nests are decadent or dead and encircle community #3. The community and the decadence of trees conditioned in part at least by droppings of birds.

Otter Lake shore is about 500 metres NW of nesting area.

Object of proposed reserve is protection of heronry and its environment.

16. Significant Human Impact

1. General : None in entire IBP Area\* .....  
 None in part of IBP Area\* .....  
 Impact on entire IBP Area\* Area logged many years ago .....

2. Particular

	Past impact	Present impact	Trend			
			Increasing	Decreasing	No change	No information
Cultivation						
Drainage						
Other soil disturbance						
Grazing	?	?				
Selective flora disturbance						
Logging	X			X		
Plantation						
Hunting						
Removal of predators						
Pesticides						
Introductions — plants						
Introductions — animals						
Fire						
Permanent habitation						
Recreation and tourism						
Research						

3. Additional details on each type of impact attached?  
 Yes ..... No .....

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												
Fauna												
Non-living												

18.

References

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

Sheet attached? Yes ..... No .....

2. List main maps available for the IBP Area. Dept. Energy, Mines & Resources (Canada)

List attached? Yes ..... No ..... VERNON -- 82 L/6 West & East 1/50,000

3. Aerial photographs for the IBP Area available?

For whole area .....X..... For part of area ..... None .....

19.

Other Relevant Information

Heron nesting area straddles the boundary between the proposed reserve (which is currently private property) and Indian Reserve #2. Proposed reserve area is the wooded portion of a farm.

Signed ..... T.C. Brayshaw .....  
(Surveyor)



