## LILY PAD LAKE

ORIGINAL PUR	1		ndisturbed high southern interio	lland lake with associated flora r of B.C.		
OVERVIEW						
Date established: ORC #: Map number:		4 May 1971 3005 82 L/2	Location: Latitude: Longitude:	NE of Nicklen Lake, 12.5 km S of Lumby 50°08'N 118°58'W		
Total Area: Land: Lake:		101 ha 88 ha 13 ha	Elevation:	1,370-1,400 m		
Access:		Access via Aberdeen and Goat Mountain Lake logging roads from Lavington to Nicklen Lake.				
Biogeoclimatic Zones: Biogeoclimatic Variant: Ecosection: Region: Management Area:		Interior Cedar Hemlock (ICH) ICH mk1 Kootenay Moist Cool Northern Okanagan Highland Okanagan Central Okanagan				
COMPOSITION						
Physical:	The reserve features a small, shallow lake on a plateau in the Okanagan Highlands. The lake is an excellent example of a small, slightly acidic bog lake undergoing natural eutrophication. The plateau is characterized by low hills with gentle slopes, sited on a morainal blanket of boulder clay.					
Biological:	beavers h dominates ER), but s and mount western la layers are	forest established after fire surrounds the lake although damming by has resulted in tree kill at the margin of the lake. Lodgepole pine es (since the mountain pine beetle epidemic no staff have visited the smaller areas are also occupied by Engelmann spruce, trembling aspen ntain and Sitka alder. Hybrid white spruce, subalpine fir, Douglas-fir, larch and western redcedar are uncommon. The shrub and/or herb e dominated by one or a combination of the following species (dry to negrass, arctic lupine, twinflower, bunchberry, black gooseberry,				

**ORIGINAL PURPOSE** 1.01 T disturbed high 11.1 • . 1 • .

> The aquatic vegetation is dominated by waterlily, pondweeds, hornwort, and algae. Sedges are abundant along the shore. Bulbous water hemlock is found here outside its characteristic range.

common horsetail. Plant species diversity is high.

In the open forest, Northern Flicker, Yellow-bellied Sapsucker, Calliope Hummingbird, Tree Swallow, and Red-breasted Nuthatch have been seen. Yellow-bellied Marmots, Northern Pocket Gophers, American Black Bears, Lynx, and Moose are found in the reserve.

The lake is home to Beaver, Muskrat, Common Loon, Western Toad, frog species, and salamander species. Spotted Sandpiper, American Dipper, and Eastern Kingbird nest at the edge of the lake.

## MANAGEMENT CONCERNS

SIGNIFICANT SPECIES	BC LIST STATUS	COSEWIC STATUS	<b>CF PRIORITY</b>		
bulbous water hemlock			4		
THREATS					
Climate Change:	<b>ate Change:</b> The projected warming temperatures in the interior regions could affect the natural eutrophication of this highland lake, resulting in changed levels of productivity and subsequent changes to the associated terrestrial flora and fauna.				
Agriculture:	Cattle grazing in boggy areas near the lake damage sensitive wetland ecosystem.				
Forest Health:	Mountain pine beetle infestation; adjacent lands outside the reserve have been logged for pine beetle control.				
Forestry:	access to the reserve; resulting in habitat fra	nding logging resulting in more roads and increased to the reserve; clear-cut logging surrounding ER is ng in habitat fragmentation in the matrix, effectively sing habitat size for species in the ER.			
RESEARCH OPPORTUNITIES	limnology, wildlife and unding pine beetle-infes or examining the impact ng the effects of fragme by wildlife species.	ted forests. of climate change on a			

# SCIENTIFIC NAMES OF SPECIES MENTIONED IN THE LILY PAD LAKE ER ACCOUNT

### Flora

alder, mountain (Alnus incana ssp. tenuifolia) alder, Sitka (Alnus viridis ssp. sinuata) aspen, trembling (*Populus tremuloides*) bunchberry (Cornus canadensis) hornwort (*Ceratophyllum sp.*) Douglas-fir (Pseudotsuga menziesii) fir, subalpine (Abies lasiocarpa var. lasiocarpa) gooseberry, black (Ribes lacustre) horsetail, common (*Equisetum arvense*) larch, western (Larix occidentalis) waterlily (*Nymphaea sp.*) lupine, arctic (Lupinus arcticus) pine, lodgepole (Pinus contorta var. latifolia) pinegrass (*Calamagrostis rubescens*) pondweed (Potamogeton spp.) redcedar, western (*Thuja plicata*) sedges (Carex spp.) spruce, Engelmann (Picea engelmannii) spruce, hybrid white (Picea glauca x engelmannii) twinflower (Linnaea borealis) water-hemlock, bulbous (Cicuta bulbifera)

#### Fauna

Bear, American Black (Ursus americanus) Beaver, American (Castor canadensis) Dipper, American (*Cinclus mexicanus*) Flicker, Northern (Colaptes auratus) Gopher, Northern Pocket (*Thomomys talpoides*) Hummingbird, Calliope (*Stellula calliope*) Kingbird, Eastern (Tyrannus tyrannus) Loon, Common (Gavia immer) Lynx (Lynx canadensis) Marmot, Yellow-bellied (Marmota flaviventris) Moose (Alces americanus) Muskrat, Common (*Ondatra zibethicus*) Nuthatch, Red-breasted (*Sitta canadensis*) Sandpiper, Spotted (Actitis macularius) Sapsucker, Yellow-bellied (Sphyrapicus varius) Swallow, Tree (*Tachycineta bicolor*) Toad, Western (Bufo boreas)