MOUNT TINSDALE ER #70

ORIGINAL PURPOSE To maintain undisturbed examples of subalpine parkland and alpine ecosystems in the Quesnel Highland.

OVERVIEW						
Date established: ORC #: Map number:	4 Dec. 1975 3070 93 H/3	Location: Latitude: Longitude:	Palmer Range, 18 km ESE of Barkerville 53°01'N 121°16'W			
Total Area: Land:	418.85 ha 418.85 ha	Elevation:	1,675-2,140 m			
Access:		Access to vicinity of reserve via logging road southeast from Barkerville. Full day hike needed to reach reserve from nearest road.				
Biogeoclimatic Zones:	-	Engelmann Spruce – Subalpine Fir (ESSF); Interior Mountain- Heather Alpine (IMA)				
Biogeoclimatic Variant:	ESSFwc3 Carib Parkland	ESSFwc3 Cariboo Wet Cold; IMAunp Undifferentiated Parkland				
Ecosection:	Bowron Valley					
Region:	Cariboo					
Management Area:	North Cariboo	North Cariboo				
COMPOSITION						

Physical:

The Palmer Range, an upland within the Shuswap Highland, trends from northwest to southeast and has summits about 2130 m in elevation. These were over-ridden by Pleistocene ice resulting in generally rounded profiles, and then subsequently dissected by local alpine glaciers and stream erosion. The reserve contains the centrally located Mount Tinsdale and summits to the northwest and southwest. From the northwest-southeast alpine backbone of the reserve the terrain falls away fairly gently to the southwest but more sharply to the northeast. Local alpine glaciers, long since melted, have formed a series of cirque basins along the northeast slopes of the reserve, giving a scalloped appearance in plain view.

Biological:

Considerable gently sloping terrain with good soil cover, located from just below to just above timberline, results in a broad transition zone between subalpine forest and alpine tundra. This parkland and krummholz zone is a major feature of the reserve. At the lowest elevations a few fairly dense stands of spruce-fir forest are present, while extensive alplands occur above the parkland zone.

Eight communities have been described in the alpine zone. Two lichendominated types in which moss campion may be prominent occur on rocky outcrops. Soils with a high content of frost-shattered rock support associations characterized by one-flowered cinquefoil and alpine bluegrass, or by alpine fescue and common juniper. Communities dominated by three species of mountain-heather and by entire-leaved white mountain-avens are widespread on well-drained slopes, while species like sibbaldia and snow willow characterize two communities in sites of late snow melt. Dominant species in the subalpine forest are subalpine fir and dwarf blueberry.

The fauna has not been surveyed, although excellent habitat for Grizzly Bears and Mountain Caribou is present in the reserve.

MANA	CEMENT	CONCERNS
WAINA	GEWIENI	CONCERNS

SIGNIFICANT SPECIES	BC LIST STATUS	COSEWIC STATUS	CF PRIORITY
Caribou (northern mountain population)	Blue listed	Threatened / Special Concern (2002)	2

THREATS

Climate Change: The reduction of alpine areas due to encroachment of migrating

forest systems has been projected as a result of climate change. Due to their geographical restriction, alpine habitats may be unable to adapt to changing conditions while timberlines continue

to rise.

Forestry: Adjacent logging activity creates access to reserve.

Mining and Adjacent mineral claims will lead to road construction and

exploration: increased access to reserve.

Recreation: Snowmobiling in adjacent area has expanded into the reserve.

SCIENTIFIC NAMES OF SPECIES MENTIONED IN THE MOUNT TINSDALE ER ACCOUNT

Flora

blueberry, dwarf (Vaccinium caespitosum)

bluegrass, alpine (Poa alpina ssp. alpina)

cinquefoil, one-flowered (Potentilla uniflora)

fescue, alpine (Festuca brachyphylla)

fir, subalpine (Abies lasiocarpa var. lasiocarpa)

juniper, common (Juniperus communis)

moss campion (Silene acaulis var. acaulis)

mountain-avens, entire-leaved white (*Dryas integrifolia* ssp. *integrifolia*)

sibbaldia (Sibbaldia procumbens)

spruce, Engelmann (Picea engelmannii)

willow, dwarf snow (Salix nivalis)

Fauna

Bear, Grizzly (*Ursus arctos*)

Caribou (northern mountain population) (Rangifer tarandus pop. 15)