_____ FIRE – BURN SEVERITY ASSESSMENT 2005 **PJ Sept 2005**

Plot Number_____ GPS #_____ Crew/date:_____

Soil and Litter Parameter	**Burn Severity**		
	Low	**Moderate**	**High**
Litter	Scorched, Charred, Consumed		Consumed
Duff (FH layers)	Varies: intact – consumed in few locations,		Consumed in most locations
Woody Debris – Small	Partly Consumed, Charred or consumed		Consumed
Woody Debris – Logs	Charred		Many consumed, others deeply charred
Mineral Soil Exposure	0 – 40%		>40%
Depth in mineral soil to live roots or rhizomes.	0 - 5 mm		> 5mm

	Burn Intensity			
Tree canopy	Mostly alive	Mostly dead; needles remaining	Dead; no needles; some twigs & cones	Dead; trunk and large branches only

SLOPE up and down _____ % _____%

% COVER green vegetation _____%

Size of surrounding area similar to plot: _____ ha

Evidence of runoff/overland flow?(circle):
Puddle terracettes, rilling, miniature hoodoos, sand deposits

Water Repellency Guidelines

DIG A 50 CM TRENCH INTO THE LIGHTER COLOURED MINDERAL SOIL, TYPICALLY ABOUT 1 TO 2 CM INTO THE MINERAL SOIL, DRIP WATER ALONG THE TRENCH AND OBSERVE THE % OF THE TRENCH IN THE FOLLOWING CATEGORIES (EG, 60 % STRONG, 40 % WEAK):

1. Degree of **Water-Repellency**. The degree of **water-repellency** is based on the time required for the absorption of a drop of **water** on a dry soil surface:

i. None – absorbs immediately _____% of trench
a. Weak - Less than 10 seconds. _____% of trench
b. Moderate - Between 10 and 40 seconds. _____% of trench
c. Strong - Longer than 40 seconds. _____% of trench