Technical Appendix 13.1

Habitat Management and Enhancement Plan Compartment Four Southern Development Area Ecological Site Classification Report

Ecological Site Classification Report

Eastings(m)	Northings(m)	Grid Reference	Climate Scenario	Site Class	Filter	Brash	Drainage	Fertiliser/Nurse
266812	627844	NS668278	Baseline climate 1961-1990	Cool - Highly exposed - Wet	All species	Brash present aged less than 18 months	No drainage installed	No fertiliser

Site Description and Variables

The site has a cool, highly exposed and wet climate. Exposure constraints may limit species options and the ability to thin woodlands without significant risk of windthrow. The soils are very wet moisture status and vp1 very poor nutrient status. Wet soils may cause flotation problems for heavy machinery on establishment, and on harvesting, if only lightly crowned species are present (e.g. birch). Brash will be redistributed evenly across the site to provide nutrients and avoid uneven growth. Tree species recommendations in ESC do not take account of each countries regulatory approval process, so prior to including species in a forest plan advice should be sought from relevant forestry authorities.

Modifications	AT	CT	DAMS	MD	SMR	SNR
Default	1176.0	6.0	17.0	84.0	1.0(Very Wet)	0.0(VP1 Very poor)
Brash						0.5
Final	1176.0	6.0	17.0	84.0	1.0(Very Wet)	0.5(VP2 Very poor)

Species	Abbr.	Suit(Eco)	Suit(Timber)	Yield	Limiting	AT	CT	DAMS	MD	SMR	SNR	Version
Corsican pine	CP	0.24	0.14	3	SMR	0.59	1.0	0.61	0.98	0.24	0.39	3.3(A)
Lodgepole pine	LP	0.39	0.38	5	SNR	0.97	1.0	0.75	0.84	0.49	0.39	3.1(A)
Macedonian pine	MCP	0.0	0.0	0	SMR	1.0	1.0	0.71	0.79	0.0	0.39	3.1(C)
Maritime pine	MAP	0.0	0.0	0	SMR	0.46	1.0	0.24	0.5	0.0	0.39	3.1(C)
Monterey/Radiata pine	RAP	0.0	0.0	0	SMR	0.27	0.89	0.62	0.14	0.0	0.37	3(C)
Scots pine	SP	0.0	0.0	0	SMR	1.0	1.0	0.63	1.0	0.0	0.39	3.3(A)
Weymouth pine	WEP	0.0	0.0	0	SMR	0.85	0.79	0.41	1.0	0.0	0.11	3(C)
Norway spruce	NS	0.0	0.0	0	SMR	0.98	1.0	0.42	1.0	0.0	0.04	3.3(A)
Oriental spruce	ORS	0.0	0.0	0	SMR	0.68	0.92	0.28	0.7	0.0	0.0	3(C)
Serbian spruce	OMS	0.07	0.06	1	SMR	0.94	1.0	0.48	0.68	0.07	0.14	3(B)
Sitka spruce	SS	0.2	0.18	5	SNR	0.9	1.0	0.75	1.0	0.4	0.2	3.4(A)
Sitka spruce (Imp.)	Imp.SS	0.2	0.18	6	SNR	0.9	1.0	0.75	1.0	0.4	0.2	3.4(A)
Douglas fir	DF	0.0	0.0	0	SMR	0.83	1.0	0.23	0.83	0.0	0.0	3.1(A)
Hybrid larch	HL	0.0	0.0	0	SMR	1.0	0.99	0.46	0.91	0.0	0.38	3(A)
Japanese larch	JL	0.0	0.0	0	SMR	1.0	1.0	0.57	1.0	0.0	0.4	3(A)
European larch	EL	0.0	0.0	0	SMR	0.98	0.87	0.49	0.92	0.0	0.0	3(A)
Western red cedar	RC	0.0	0.0	0	SNR	0.93	1.0	0.34	1.0	0.19	0.0	3.1(A)
Japanese red cedar	JCR	0.0	0.0	0	SMR	0.9	1.0	0.32	1.0	0.0	0.0	3(B)
European silver fir	ESF	0.0	0.0	0	SMR	0.74	0.83	0.48	1.0	0.0	0.15	3(B)
Grand fir	GF	0.0	0.0	0	SMR	0.75	0.99	0.36	0.96	0.0	0.0	3(A)
Noble Fir	NF	0.0	0.0	0	SMR	1.0	1.0	0.71	1.0	0.0	0.1	3(A)
Nordmann fir	NMF	0.0	0.0	0	SMR	0.73	0.72	0.55	0.61	0.0	0.02	3(C)
Pacific fir	PSF	0.0	0.0	0	SMR	0.99	1.0	0.7	0.96	0.0	0.24	3.4(C)
Leyland cypress	LEC	0.0	0.0	0	SMR	0.96	1.0	0.29	1.0	0.0	0.0	3(B)
Western hemlock	WH	0.0	0.0	0	SMR	1.0	1.0	0.52	1.0	0.0	0.35	3(A)
Giant redwood	WSQ	0.0	0.0	0	SMR	0.81	0.86	0.54	0.73	0.0	0.0	3(B)
Coast redwood	RSQ	0.0	0.0	0	SMR	0.65	1.0	0.4	1.0	0.0	0.08	3(B)
Lawson's cypress	LC	0.0	0.0	0	SMR	0.8	1.0	0.16	1.0	0.0	0.09	3(B)
Downy birch	PBI	0.41	0.41	3	SNR	0.99	1.0	0.59	1.0	0.56	0.41	3.2(A)

Ecological Site Classification Report												
Silver birch	SBI	0.0	0.0	0	SMR	1.0	1.0	0.41	0.97	0.0	0.38	3.2(A)
Big leaf maple	AMA	0.0	0.0	0	SMR	0.92	1.0	0.09	0.59	0.0	0.11	3.1(C)
Norway maple	NOM	0.0	0.0	0	SMR	0.93	0.99	0.23	1.0	0.0	0.0	3(B)
Sycamore	SY	0.0	0.0	0	SMR	0.88	1.0	0.66	1.0	0.0	0.0	3.3(A)
Beech	BE	0.0	0.0	0	SMR	0.96	1.0	0.46	1.0	0.0	0.03	3.1(A)
Roble beech	RON	0.0	0.0	0	SMR	0.44	1.0	0.39	0.94	0.0	0.0	3.1(B)
Ash	AH	0.0	0.0	0	SMR	0.94	1.0	0.21	1.0	0.0	0.0	3(A)
Pedunculate oak	POK	0.0	0.0	0	SMR	0.76	0.79	0.45	0.89	0.0	0.0	3.1(A)
Red oak	ROK	0.0	0.0	0	SMR	0.75	1.0	0.48	0.77	0.0	0.0	3(B)
Sessile oak	SOK	0.0	0.0	0	SMR	0.87	1.0	0.45	1.0	0.0	0.04	3.2(A)
Aspen	ASP	0.0	0.0	0	SNR	1.0	1.0	0.58	0.97	0.2	0.0	3.2(A)
Black poplar	BPO	0.0	0.0	0	SNR	0.88	0.97	0.58	0.87	0.27	0.0	3.1(A)
Raull beech	RAN	0.0	0.0	0	SMR	0.72	1.0	0.23	0.75	0.0	0.0	3.1(B)
Common alder	CAR	0.15	0.13	2	SNR	0.89	1.0	0.48	1.0	0.73	0.15	3.2(A)
Red alder	RAR	0.0	0.0	0	SNR	0.99	1.0	0.62	1.0	0.54	0.0	3(B)
Grey alder	GAR	0.33	0.32	4	SNR	0.97	1.0	0.82	1.0	0.56	0.33	3.1(B)
Italian alder	IAR	0.25	0.12	1	DAMS	0.48	1.0	0.25	0.38	0.3	0.5	3.2(B)
Shining gum	ENI	0.0	0.0	0	SMR	0.82	0.91	0.58	0.69	0.0	0.02	3(C)
Cider gum	EGU	0.16	0.14	4	SMR	0.85	0.94	0.46	0.83	0.16	0.23	3(C)
Rowan	ROW	0.0	0.0	0	SMR	0.96	1.0	0.89	1.0	0.0	0.4	3.3(A)
True service tree	TST	0.0	0.0	0	SMR	0.8	1.0	0.16	1.0	0.0	0.0	3(A)
Wild service tree	WST	0.0	0.0	0	SMR	0.47	1.0	0.63	0.53	0.0	0.0	3(A)
Black walnut	JNI	0.0	0.0	0	SMR	0.07	0.74	0.58	0.35	0.0	0.0	3(B)
Common walnut	JRE	0.0	0.0	0	SMR	0.14	0.74	0.36	0.37	0.0	0.0	3(B)
Hornbeam	HBM	0.0	0.0	0	SNR	0.57	0.84	0.38	0.39	0.18	0.0	3(A)
Small-leaved lime	SLI	0.0	0.0	0	SMR	0.69	0.99	0.48	0.74	0.0	0.05	3(A)
Wych elm	WEM	0.0	0.0	0	SMR	0.79	1.0	0.37	0.92	0.0	0.0	3(A)
Wild cherry	WCH	0.0	0.0	0	SMR	0.74	1.0	0.18	0.96	0.0	0.0	3(A)
Sweet chestnut	SC	0.0	0.0	0	SMR	0.64	0.99	0.53	0.97	0.0	0.0	3(A)
White willow	WWL	0.0	0.0	0	SNR	0.93	1.0	0.61	1.0	0.64	0.0	3(C)
Holly	HOL	0.0	0.0	0	SMR	0.87	1.0	0.45	1.0	0.0	0.1	3(C)
Willow (SRC)	SRC	0.0	0.0	0	SNR	0.66	1.0	0.54	1.0	0.07	0.0	3(C)
Eucalyptus glaucescens (SRF)	SRF	0.0	0.0	0	SMR	0.55	1.0	0.44	0.93	0.0	0.0	3(C)