

Appendix 11-B

*Murray River Coal Project: Summary of Acid Sensitivity by
Parent Material and Ecological Rating*

MURRAY RIVER COAL PROJECT

Application for an Environmental Assessment Certificate / Environmental Impact Statement

Appendix 11-B. Murray River Coal Project: Summary of Acid Sensitivity by Parent Material and Ecological Rating

Sequence	Terrain Poygon ID	TEM Polygon ID	Terrain Label	BEC_variant	TEM_Label	SMR1	SMR2	SMR3	SMUgroup	Soil Mapping Unit	Texture Group	Coarse Fragments	Parent Material	Acid Sensitivity	Critical Load	Area_ha
1	1	1a	8zcMbj-L 2Ov/Mbd-U i-p	ESSFmv2	ESSFmv2 0 Ws	6	6	-	SMU-M2	M6_G	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	8.63
2	1	1b	8zcMbj-L 2Ov/Mbd-U i-p	ESSFmv2	-	5	-	-	SMU-M2	M5_B.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	1.05
3	1	1c	8zcMbj-L 2Ov/Mbd-U i-p	ESSFmv2	ESSFmv2 06 FH	4	6	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	0.71
4	1	1d	8zcMbj-L 2Ov/Mbd-U i-p	ESSFmv2	ESSFmv2 06 FH	6	6	-	SMU-M2	M6_G	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	1.70
5	1	1e	8zcMbj-L 2Ov/Mbd-U i-p	ESSFmv2	-	6	-	-	SMU-M2	M6_G	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	0.70
6	1	1f	8zcMbj-L 2Ov/Mbd-U i-p	ESSFmv2	-	6	-	-	SMU-M2	M6_G	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	0.19
7	1	1g	8zcMbj-L 2Ov/Mbd-U i-p	ESSFmv2	-	6	-	-	SMU-M2	M6_G	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	1.23
8	1	1h	8zcMbj-L 2Ov/Mbd-U i-p	ESSFmv2	-	6	-	-	SMU-M2	M6_G	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	0.15
9	2	2a	zgcMvj m-i	ESSFmv2	ESSFmv2 05 FD	4	5	5	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	2.36
10	2	2b	zgcMvj m-i	ESSFmv2	ESSFmv2 05 FD	4	5	-	SMU-M1	M4_B.lit	mod-fine CL-SiCl	moder	Till neutral	Moderate	500 eq/ha/yr	0.95
11	3	3	zcgMbuj w	ESSFmv2	ESSFmv2 02 FL	4	2	4	SMU-M1	M4_B.lit	mod-fine CL-SiCl	moder	Till neutral	Moderate	500 eq/ha/yr	9.85
12	4	4a	6Obj 4Ov/zgcMp-L p-i	ESSFmv2	-	6	-	-	SMU-O2	O M6_G.p	Organic	None	Organic	Moderate	500 eq/ha/yr	0.15
13	4	4b	6Obj 4Ov/zgcMp-L p-i	ESSFmv2	-	6	-	-	SMU-F2	F6_G.p	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	1.00
14	4	4c	6Obj 4Ov/zgcMp-L p-i	ESSFmv2	ESSFmv2 0 Ws04	6	6	-	SMU-O2	O M6_G.p	Organic	None	Organic	Moderate	500 eq/ha/yr	1.08
15	4	4d	6Obj 4Ov/zgcMp-L p-i	ESSFmv2	-	6	-	-	SMU-O2	O M6_G.p	Organic	None	Organic	Moderate	500 eq/ha/yr	0.60
16	4	4e	6Obj 4Ov/zgcMp-L p-i	ESSFmv2	ESSFmv2 0 Ws	6	6	-	SMU-O2	O M6_G.p	Organic	None	Organic	Moderate	500 eq/ha/yr	0.86
17	4	4f	6Obj 4Ov/zgcMp-L p-i	ESSFmv2	-	6	-	-	SMU-F2	F6_G.p	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	0.46
18	5	5a	5Mbuj 5Mbj-L i-w	ESSFmv2	ESSFmv2 04 FO	4	4	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	11.72
19	5	5b	5Mbuj 5Mbj-L i-w	ESSFmv2	ESSFmv2 06 FH	6	6	4	SMU-M2	M6_G	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	10.20
20	5	5c	5Mbuj 5Mbj-L i-w	ESSFmv2	-	6	-	-	SMU-M2	M6_G	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	1.06
21	5	5d	5Mbuj 5Mbj-L i-w	ESSFmv2	ESSFmv2 01 FR	n	4	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	3.72
22	5	5e	5Mbuj 5Mbj-L i-w	ESSFmv2	ESSFmv2 01 FR	4	4	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	4.77
23	5	5f	5Mbuj 5Mbj-L i-w	ESSFmv2	ESSFmv2 06 FH	4	6	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	5.33
24	5	5g	5Mbuj 5Mbj-L i-w	ESSFmv2	ESSFmv2 04 FO	4	4	6	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	6.67
25	5	5h	5Mbuj 5Mbj-L i-w	ESSFmv2	-	4	-	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	4.03
26	5	5i	5Mbuj 5Mbj-L i-w	ESSFmv2	ESSFmv2 06 FH	4	6	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	4.67
27	5	5j	5Mbuj 5Mbj-L i-w	ESSFmv2	ESSFmv2 06 FH	4	6	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	3.21
28	5	5k	5Mbuj 5Mbj-L i-w	ESSFmv2	ESSFmv2 06 FH	4	6	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	3.06
29	5	5l	5Mbuj 5Mbj-L i-w	ESSFmv2	ESSFmv2 01 FR	6	4	-	SMU-M2	M6_G	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	1.00
30	5	5m	5Mbuj 5Mbj-L i-w	ESSFmv2	-	6	-	-	SMU-M2	M6_G	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	1.38
31	5	5n	5Mbuj 5Mbj-L i-w	ESSFmv2	ESSFmv2 06 FH	4	6	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	2.06
32	5	5o	5Mbuj 5Mbj-L i-w	ESSFmv2	-	6	-	-	SMU-M2	M6_G	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	1.18
33	5	5p	5Mbuj 5Mbj-L i-w	ESSFmv2	-	4	-	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	1.45
34	5	5q	5Mbuj 5Mbj-L i-w	ESSFmv2	-	6	-	-	SMU-M2	M6_G	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	0.52
35	5	5r	5Mbuj 5Mbj-L i-w	ESSFmv2	-	6	-	-	SMU-F2	F6_G.p	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	0.44
36	6	6	Mba i-w	ESSFmv2	-	4	-	-	SMU-M1	M4_B.lit	mod-fine CL-SiCl	moder	Till neutral	Moderate	500 eq/ha/yr	1.50
37	7	7	9Au 1Aj w-r	BWBSwk1	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	26.65
38	8	8	Mbja w	ESSFmv2	ESSFmv2 03 BT	4	4	n	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	25.17
39	9	9	5Ov/FGp 5PO v	BWBSmw0	BWBSmw0 0 Wm01	99	7	-	OpWater	OW99_n	Open Water	-	-	not rated	-	1.45
40	10	10a	zsFGp r	BWBSmw0	BWBSmw0 103\$ 103\$	2	3	-	SMU-FG1	FG2_B	coarse S - L	high	Glaciofluvial	High	250 eq/ha/yr	19.41
41	10	10b	zsFGp r	BWBSmw0	-	4	-	-	SMU-FG1	FG4_B	coarse S - L	high	Glaciofluvial	High	250 eq/ha/yr	7.39
42	11	11a	7zsFGv/Mbur 3czsMj w	BWBSmw0	BWBSmw0 103 103	4	3	n	SMU-FG2	FG M4_B	coarse S - L	high	Glaciofluvial	Moderate	500 eq/ha/yr	20.51
43	11	11b	7zsFGv/Mbur 3czsMj w	BWBSmw0	BWBSmw0 101 101	6	4	-	SMU-FG3	FG M6_G	coarse S - L	high	Glaciofluvial	Moderate	500 eq/ha/yr	1.37
44	11	11c	7zsFGv/Mbur 3czsMj w	BWBSmw0	BWBSmw0 101 101	3	4	-	SMU-FG2	FG M3_B	coarse S - L	high	Glaciofluvial	Moderate	500 eq/ha/yr	1.18
45	11	11d	7zsFGv/Mbur 3czsMj w	BWBSmw0	BWBSmw0 103 103	4	3	-	SMU-FG2	FG M4_B	coarse S - L	high	Glaciofluvial	Moderate	500 eq/ha/yr	5.60
46	11	11e	7zsFGv/Mbur 3czsMj w	BWBSmw0	BWBSmw0 103 103	4	3	n	SMU-FG2	FG M4_B	coarse S - L	high	Glaciofluvial	Moderate	500 eq/ha/yr	7.21
47	11	11f	7zsFGv/Mbur 3czsMj w	BWBSmw0	BWBSmw0 103 103	4	3	n	SMU-FG2	FG M4_B	coarse S - L	high	Glaciofluvial	Moderate	500 eq/ha/yr	0.99
48	11	11g	7zsFGv/Mbur 3czsMj w	BWBSmw0	BWBSmw0 103 103	4	3	n	SMU-FG2	FG M4_B	coarse S - L	high	Glaciofluvial	Moderate	500 eq/ha/yr	1.47
49	12	12	zgsCk w	BWBSmw0	-	4	-	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	13.03
50	13	13	6Cvak 4sckMm r-w	BWBSmw0	BWBSmw0 103 103	3	3	-	SMU-C1	C3_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	18.60
51	14	14	zsgMjw w	BWBSmw0	BWBSmw0 102 102	2	2	-	SMU-M1	M2_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	6.66
52	15	15	sgkFGc w	BWBSmw0	BWBSmw0 103 103	2	3	-	SMU-FG1	FG2_B	coarse S - L	high	Glaciofluvial	High	250 eq/ha/yr	16.22
53	16	16a	zcrMw/Rta w-r	BWBSmw0	BWBSmw0 102 102	5	2	-	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	12.45
54	16	16b	zcrMw/Rta w-r	BWBSmw0	BWBSmw0 102 102	5	2	-	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	3.58
55	16	16c	zcrMw/Rta w-r	BWBSmw0	BWBSmw0 103 103	4	3	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	2.38
56	16	16d	zcrMw/Rta w-r	BWBSmw0	BWBSmw0 102 102	5	2	-	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	6.61
57	16	16e	zcrMw/Rta w-r	BWBSmw0	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	2.55
58	17	17a	zskFGp w	BWBSmw0	BWBSmw0 110 110	4	4	-	SMU-FG1	FG4_B	coarse S - L	high	Glaciofluvial	High	250 eq/ha/yr	4.16
59	17	17b	zskFGp w	BWBSmw0	BWBSmw0 101 101	2	4	4	SMU-FG1	FG2_B	coarse S - L	high	Glaciofluvial	High	250 eq/ha/yr	24.69
60	17	17c	zskFGp w	BWBSmw0	BWBSmw0 101 101	2	4	-	SMU-FG1	FG2_B	coarse S - L	high	Glaciofluvial	High	250 eq/ha/yr	1.62
61	17	17d	zskFGp w	BWBSmw0	BWBSmw0 101 101	n	4	6	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	2.12
62	18	18	6Pp 2RI 2Fp i-m	BWBSmw0	BWBSmw0 112 112	99	6	6	OpWater	OW99_n	Open Water	-	-	not rated	-	3.33
63	19	19a	7zgsFGv/Mrh 3FGk r-m	BWBSmw0	-	2	-	-	SMU-FG1	FG2_B	coarse S - L	high	Glaciofluvial	High	250 eq/ha/yr	7.22
64	19	19b	7zgsFGv/Mrh 3FGk r-m	BWBSmw0	BWBSmw0 101 101	3	4	-	SMU-F1	F3_B	coarse S-LS	high	Fluvial	High	250 eq/ha/yr	5.44
65	20	20	zcrMm w	BWBSmw0	BWBSmw0 110 110	4	4	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	9.20

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Sequence	Terrain Poygon ID	TEM Polygon ID	Terrain Label	BEC_variant	TEM_Label	SMR1	SMR2	SMR3	SMUgroup	Soil Mapping Unit	Texture Group	Coarse Fragments	Parent Material	Acid Sensitivity	Critical Load	Area_ha
66	21	21a	8zcMkt-R's 2Fp i	BWBSwk1	BWBSwk1 110 110	4	5	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	7.48
67	21	21b	8zcMkt-R's 2Fp i	BWBSwk1	BWBSwk1 110 110	4	5	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	3.75
68	21	21c	8zcMkt-R's 2Fp i	BWBSwk1	BWBSwk1 110 110	99	5	-	OpWater	OW99_n	Open Water	-	-	not rated	-	4.00
69	21	21d	8zcMkt-R's 2Fp i	BWBSwk1	BWBSwk1 110 110	4	5	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	4.79
70	21	21e	8zcMkt-R's 2Fp i	BWBSwk1	BWBSwk1 0 Ws	5	6	-	SMU-M2	M5_B.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	2.02
71	22	22a	7Cks-R's 2Rs-R'bf 1Fpu	BWBSmw0	BWBSmw0 0 ES	2	-	-	SMU-C1	C2_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	21.72
72	22	22b	7Cks-R's 2Rs-R'bf 1Fpu	BWBSwk1	BWBSwk1 102 102	3	2	-	SMU-C1	C3_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	7.50
73	22	22c	7Cks-R's 2Rs-R'bf 1Fpu	BWBSwk1	BWBSwk1 101 101	3	4	-	SMU-C1	C3_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	11.91
74	22	22d	7Cks-R's 2Rs-R'bf 1Fpu	BWBSwk1	BWBSwk1 101 101	3	4	-	SMU-C1	C3_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	26.37
75	22	22e	7Cks-R's 2Rs-R'bf 1Fpu	BWBSwk1	BWBSwk1 0 ES	2	-	-	SMU-C1	C2_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	5.74
76	23	23a	6Mbu-L 4Mbj m-i	BWBSwk1	BWBSwk1 0 Ws	5	6	-	SMU-M2	M5_B.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	2.20
77	23	23b	6Mbu-L 4Mbj m-i	BWBSwk1	BWBSwk1 101 101	5	4	-	SMU-M2	M5_B.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	5.67
78	24	24a	5Ov/cMj 5cMu p-m	BWBSwk1	-	5	-	-	SMU-O2	O5_G.p	Organic	None	Organic	Moderate	500 eq/ha/yr	2.94
79	24	24b	5Ov/cMj 5cMu p-m	BWBSwk1	-	6	-	-	SMU-F2	F6_G.p	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	0.46
80	24	24c	5Ov/cMj 5cMu p-m	BWBSwk1	-	6	-	-	SMU-F2	F6_G.p	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	1.16
81	25	25a	Ov/cMj p	BWBSwk1	BWBSwk1 111 111	6	6	5	SMU-F2	F6_G.p	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	3.97
82	25	25b	Ov/cMj p	BWBSwk1	-	6	-	-	SMU-F2	F6_G.p	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	0.63
83	25	25c	Ov/cMj p	BWBSwk1	BWBSwk1 111 111	5	6	-	SMU-O2	O5_G.p	Organic	None	Organic	Moderate	500 eq/ha/yr	0.20
84	25	25d	Ov/cMj p	BWBSwk1	BWBSwk1 101 101	5	4	-	SMU-O2	O5_G.p	Organic	None	Organic	Moderate	500 eq/ha/yr	3.21
85	25	25e	Ov/cMj p	BWBSwk1	BWBSwk1 111 111	5	6	-	SMU-O2	O5_G.p	Organic	None	Organic	Moderate	500 eq/ha/yr	2.34
86	25	25f	Ov/cMj p	BWBSwk1	-	6	-	-	SMU-F2	F6_G.p	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	0.58
87	26	26a	zsFGj r	BWBSmw0	BWBSmw0 104\$ 104\$	5	5	-	SMU-FG3	FG5_BR.GL.g	coarse S - L	high	Glaciofluvial	Moderate	500 eq/ha/yr	30.77
88	26	26b	zsFGj r	BWBSmw0	BWBSmw0 104\$ 104\$	4	5	-	SMU-FG1	FG4_B	coarse S - L	high	Glaciofluvial	High	250 eq/ha/yr	15.75
89	27	27	Mbka-Rs w	BWBSmw0	BWBSmw0 101 101	3	4	-	SMU-M1	M3_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	13.38
90	28	28	7Ov/Fpj-L 3sOj p-v	BWBSmw0	BWBSmw0 112 112	6	6	-	SMU-O2	O1M6_G.p	Organic	None	Organic	Moderate	500 eq/ha/yr	2.87
91	29	29	szcFd w	BWBSmw0	BWBSmw0 101 101	4	4	-	SMU-F1	F4_CU.R	coarse S-LS	high	Fluvial	High	250 eq/ha/yr	1.44
92	30	30	szcFp w	BWBSmw0	-	5	-	-	SMU-F2	F5_R.g	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	3.55
93	31	31	szcFp m	BWBSmw0	BWBSmw0 111 111	6	6	n	SMU-F2	F6_GLCU.R.	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	61.77
94	32	32	6Ov/zcLp 4PO v	BWBSmw0	BWBSmw0 0 Wm01	99	7	-	OpWater	OW99_n	Open Water	-	-	not rated	-	3.96
95	33	33	PO	BWBSmw0	-	99	-	-	OpWater	OW99_n	Open Water	-	-	not rated	-	2.10
96	34	34	8Abk 2Abu w-r	BWBSmw0	BWBSmw0 0 RY	n	n	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	18.00
97	35	35	Abtu r-w	BWBSmw0	BWBSmw0 0 RY	n	n	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	21.94
98	36	36	8Aks-R's 2Apu w	BWBSmw0	BWBSmw0 0 RY	n	n	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	64.28
99	37	37	6Aks-R's 3Ap-L 1W w-i	BWBSmw0	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	30.77
100	38	38	Abuj w	BWBSmw0	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	26.92
101	39	39	8Mwaj 2Dx/Rs r-w	BWBSwk1	BWBSwk1 102 102	2	2	-	SMU-M1	M2_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	15.23
102	40	40a	kMa w	BWBSwk1	BWBSwk1 101 101	4	4	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	6.41
103	40	40b	kMa w	BWBSwk1	BWBSwk1 101 101	4	4	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	5.69
104	41	41	8Mwu 2Rhk w-r	BWBSwk1	BWBSwk1 103 103	n	5	6	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	6.74
105	42	42	Abks r	BWBSwk1	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	6.47
106	43	43	Abpu w	BWBSmw0	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	7.03
107	44	44	6Mbj-L 4Mba w-i	BWBSmw0	BWBSmw0 0 RY	4	n	4	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	7.92
108	45	45	7FGhu 3PO w	BWBSmw0	BWBSmw0 0 PD	6	99	-	SMU-FG3	FG6_G	coarse S - L	high	Glaciofluvial	Moderate	500 eq/ha/yr	0.83
109	46	46	Fbj-L i	BWBSwk1	BWBSwk1 0 RI	6	99	-	SMU-F2	F6_G	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	3.03
110	47	47	zsFGj/Mf w	BWBSmw0	BWBSmw0 101 101	4	4	-	SMU-FG2	FG1M4_B	coarse S - L	high	Glaciofluvial	Moderate	500 eq/ha/yr	11.57
111	48	48	7Mbj 3Ov/Mp w-p	BWBSmw0	BWBSmw0 110 110	4	4	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	10.11
112	49	49a	8Mbj-L 2Fj-L i	BWBSmw0	BWBSmw0 111 111	6	6	-	SMU-M2	M6_G	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	2.71
113	49	49b	8Mbj-L 2Fj-L i	BWBSwk1	-	5	-	-	SMU-M2	M5_B.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	2.09
114	50	50	Mw/Rjh w-r	BWBSmw0	BWBSmw0 101 101	3	4	-	SMU-M1	M3_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	11.63
115	51	51	Mkj-VR's w-i	BWBSmw0	BWBSmw0 0 RI	3	99	-	SMU-M1	M3_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	1.76
116	52	52	Aks-VRs r	BWBSmw0	BWBSmw0 0 RY	n	n	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	2.35
117	53	53	5Abpu 5Mwpu w-r	BWBSmw0	BWBSmw0 0 RY	n	n	4	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	38.94
118	54	54a	Mbp w	BWBSmw0	BWBSmw0 0 RZ	3	n	-	SMU-M1	M3_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	7.03
119	54	54b	Mbp w	BWBSmw0	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	3.59
120	54	54c	Mbp w	BWBSmw0	BWBSmw0 0 RZ	3	n	-	SMU-M1	M3_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	1.26
121	55	55	Apu w-m	BWBSmw0	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	3.58
122	56	56	Apu w-r	BWBSmw0	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	22.58
123	57	57	6Ck-V i 4Fpj i	BWBSmw0	-	6	-	-	SMU-F2	F6_G	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	1.30
124	58	58	Mbaj w	BWBSmw0	BWBSmw0 101 101	4	4	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	8.56
125	59	59	Aka-F'u m-w	BWBSmw0	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	12.76
126	60	60	FGpj w	BWBSmw0	BWBSmw0 104 104	n	5	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	2.24
127	61	61a	7Mbj 3FGp w	BWBSmw0	BWBSmw0 0 RZ	4	n	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	4.86
128	61	61b	7Mbj 3FGp w	BWBSmw0	-	4	-	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	2.86
129	61	61c	7Mbj 3FGp w	BWBSmw0	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	1.69
130	61	61d	7Mbj 3FGp w	BWBSmw0	BWBSmw0 0 RZ	4	n	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	1.32

Appendix 11-B. Murray River Coal Project: Summary of Acid Sensitivity by Parent Material and Ecological Rating

Sequence	Terrain Poygon ID	TEM Polygon ID	Terrain Label	BEC_variant	TEM_Label	SMR1	SMR2	SMR3	SMUgroup	Soil Mapping Unit	Texture Group	Coarse Fragments	Parent Material	Acid Sensitivity	Critical Load	Area_ha
131	62	62	sgFGpu w	BWBSmw0	BWBSmw0 104 104	4	5	-	SMU-FG1	FG4_B	coarse S - L	high	Glaciofluvial	High	250 eq/ha/yr	24.31
132	63	63	7Fpf 3zcMbj-L m-i	BWBSmw0	BWBSmw0 111 111	4	6	-	SMU-F1	F4_CU.R	coarse S-LS	high	Fluvial	High	250 eq/ha/yr	17.31
133	64	64a	Ovbp p	BWBSmw0	-	7	-	-	SMU-O1	O7_M	Organic	None	Organic	Moderate	500 eq/ha/yr	6.73
134	64	64b	Ovbp p	BWBSmw0	-	7	-	-	SMU-O1	O7_M	Organic	None	Organic	Moderate	500 eq/ha/yr	4.94
135	65	65	8Op 2Mbp-L p-v	BWBSmw0	-	7	-	-	SMU-O1	O7_M	Organic	None	Organic	Moderate	500 eq/ha/yr	5.31
136	66	66	8zFv/cMbuj-L 2Mbuj-L i-p	BWBSmw0	BWBSmw0 101 101	6	4	-	SMU-M2	M6_G	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	4.35
137	67	67	7Ff 3Fp-UI i-m	BWBSmw0	-	4	-	-	SMU-F1	F4_B	coarse S-LS	high	Fluvial	High	250 eq/ha/yr	34.76
138	68	68	Mak w-r	BWBSmw0	-	3	-	-	SMU-M1	M3_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	2.84
139	69	69	7Mbk 3F/Mbju-L i-m	BWBSmw0	BWBSmw0 101 101	4	4	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	6.29
140	70	70	8FGhp 2Fp-L w-i	BWBSmw0	BWBSmw0 101 101	3	4	-	SMU-F1	F3_CU.R	coarse S-LS	high	Fluvial	High	250 eq/ha/yr	9.00
141	71	71	7gzsFv/Mks-VFc 3Mba-Fc i	BWBSmw0	-	6	-	-	SMU-F2	F6_G	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	4.53
142	72	72	Ovx/Fp-L i-p	BWBSmw0	-	6	-	-	SMU-O2	O1M6_G.p	Organic	None	Organic	Moderate	500 eq/ha/yr	2.25
143	73	73	6PO 4Fj-L i-p	BWBSmw0	BWBSmw0 0 Ws	99	6	-	OpWater	OW99_n	Open Water	-	-	not rated	-	0.95
144	74	74	Mbj-L w	BWBSmw0	-	4	-	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	5.29
145	75	75	Ak r	BWBSmw0	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	26.47
146	76	76	5PO 5Aok w	BWBSmw0	BWBSmw0 0 RY	99	n	-	OpWater	OW99_n	Open Water	-	-	not rated	-	0.98
147	77	77	sFGv/cMj-L i	BWBSmw0	BWBSmw0 104 104	4	5	-	SMU-FG1	FG4_B	coarse S - L	high	Glaciofluvial	High	250 eq/ha/yr	9.40
148	78	78	5FGp-L 5Mbu-L i	BWBSmw0	BWBSmw0 111 111	4	6	-	SMU-FG1	FG4_B	coarse S - L	high	Glaciofluvial	High	250 eq/ha/yr	3.63
149	79	79	Mbuj w	BWBSmw0	-	3	-	-	SMU-M1	M3_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	12.77
150	80	80	8Ck-Rs 1Fu 1Rs i-m	BWBSmw0	BWBSmw0 0 RI	2	99	6	SMU-C1	C2_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	12.63
151	81	81	8Mbuj 2Mb-L w-m	BWBSmw0	BWBSmw0 110 110	4	4	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	10.33
152	82	82	8Avp 2W i	BWBSmw0	BWBSmw0 0 OW	n	99	6	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	17.21
153	83	83	6Ov/Fpu 4Mbu-L i-p	BWBSmw0	BWBSmw0 111 111	6	6	-	SMU-O2	O1M6_G.p	Organic	None	Organic	Moderate	500 eq/ha/yr	1.38
154	84	84	4FGp 4FGhj 2Fp w	BWBSmw0	BWBSmw0 103 103	4	3	-	SMU-FG1	FG4_B	coarse S - L	high	Glaciofluvial	High	250 eq/ha/yr	10.27
155	85	85a	5Ovx/Mbp-L 5Mbu-L i	BWBSmw0	BWBSmw0 0 Ws	6	6	-	SMU-O2	O1M6_G.p	Organic	None	Organic	Moderate	500 eq/ha/yr	3.08
156	85	85b	5Ovx/Mbp-L 5Mbu-L i	BWBSmw0	BWBSmw0 0 OW	6	99	-	SMU-F2	F6_G.p	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	1.39
157	86	86	8zsFGx/Mu 2Mb-Lw-i	BWBSmw0	BWBSmw0 104 104	4	5	-	SMU-FG2	FG1M4_BR.GL	coarse S - L	high	Glaciofluvial	Moderate	500 eq/ha/yr	3.28
158	87	87	Mbp w	BWBSmw0	BWBSmw0 101 101	4	4	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	13.75
159	88	88	Ap w-r	BWBSmw0	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	63.77
160	89	89	Mbu w	BWBSmw0	BWBSmw0 103 103	4	3	n	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	8.02
161	90	90a	zCv/Mu i	BWBSwk1	BWBSwk1 101 101	5	4	-	SMU-C2	C5_B.g	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	4.05
162	90	90b	zCv/Mu i	ESSFmv2	ESSFmv2 04 FO	5	4	-	SMU-C2	C5_B.g	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	2.82
163	90	90c	zCv/Mu i	ESSFmv2	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	0.78
164	90	90d	zCv/Mu i	BWBSwk1	BWBSwk1 110 110	4	5	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	4.07
165	90	90e	zCv/Mu i	BWBSwk1	BWBSwk1 110 110	5	5	-	SMU-C2	C5_B.g	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	0.84
166	90	90f	zCv/Mu i	BWBSwk1	BWBSwk1 110 110	5	5	-	SMU-C2	C5_B.g	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	0.61
167	90	90g	zCv/Mu i	ESSFmv2	-	5	-	-	SMU-C2	C5_B.g	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	1.07
168	90	90h	zCv/Mu i	ESSFmv2	-	5	-	-	SMU-C2	C5_B.g	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	0.22
169	91	91	zcgMwuj w-m	BWBSwk1	BWBSwk1 110 110	4	5	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	4.96
170	92	92a	7zcMbu-E 3Mbu-WL m-i	BWBSwk1	BWBSwk1 110 110	4	5	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	53.32
171	92	92b	7zcMbu-E 3Mbu-WL m-i	BWBSwk1	BWBSwk1 101 101	5	4	-	SMU-M2	M5_B.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	1.80
172	92	92c	7zcMbu-E 3Mbu-WL m-i	BWBSwk1	BWBSwk1 110 110	4	5	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	1.15
173	92	92d	7zcMbu-E 3Mbu-WL m-i	BWBSwk1	BWBSwk1 101 101	2	4	-	SMU-M1	M2_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	2.80
174	92	92e	7zcMbu-E 3Mbu-WL m-i	BWBSwk1	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	0.48
175	93	93	Mbua-L m-i	BWBSwk1	BWBSwk1 104 104	4	4	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	2.09
176	94	94a	8zcMbup 2Mba w-m	BWBSwk1	BWBSwk1 101 101	2	4	-	SMU-M1	M2_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	27.80
177	94	94b	8zcMbup 2Mba w-m	BWBSwk1	BWBSwk1 101 101	2	4	-	SMU-M1	M2_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	27.15
178	94	94c	8zcMbup 2Mba w-m	BWBSwk1	BWBSwk1 102 102	4	2	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	2.40
179	94	94d	8zcMbup 2Mba w-m	BWBSwk1	BWBSwk1 101 101	4	4	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	3.11
180	94	94e	8zcMbup 2Mba w-m	BWBSwk1	BWBSwk1 103 103	4	5	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	9.85
181	94	94f	8zcMbup 2Mba w-m	BWBSwk1	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	3.04
182	94	94g	8zcMbup 2Mba w-m	BWBSwk1	BWBSwk1 101 101	4	4	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	1.92
183	94	94h	8zcMbup 2Mba w-m	BWBSwk1	-	4	-	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	2.03
184	95	95a	8Mbj 2Mba-LV w-i	BWBSwk1	BWBSwk1 104 104	4	4	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	22.22
185	95	95b	8Mbj 2Mba-LV w-i	BWBSwk1	-	5	-	-	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	0.54
186	95	95c	8Mbj 2Mba-LV w-i	BWBSwk1	-	4	-	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	0.86
187	95	95d	8Mbj 2Mba-LV w-i	BWBSwk1	-	5	-	-	SMU-M2	M5_B.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	2.97
188	95	95e	8Mbj 2Mba-LV w-i	BWBSwk1	-	4	-	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	6.90
189	96	96	zsgFGfp w	BWBSmw0	BWBSmw0 101\$ 101\$	2	4	-	SMU-FG1	FG2_B	coarse S - L	high	Glaciofluvial	High	250 eq/ha/yr	25.58
190	97	97	zcMju m	BWBSmw0	-	4	-	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	9.68
191	98	98	czsMj w	BWBSmw0	BWBSmw0 101 101	4	4	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	53.84
192	99	99a	7zsgFGt 3Apk w-r	ESSFmv2	ESSFmv2 01 FR	2	4	-	SMU-FG1	FG2_B	coarse S - L	high	Glaciofluvial	High	250 eq/ha/yr	6.82
193	99	99b	7zsgFGt 3Apk w-r	ESSFmv2	ESSFmv2 06 FH	2	6	4	SMU-FG1	FG2_B	coarse S - L	high	Glaciofluvial	High	250 eq/ha/yr	6.19
194	99	99c	7zsgFGt 3Apk w-r	ESSFmv2	ESSFmv2 01 FR	2	4	4	SMU-FG1	FG2_B	coarse S - L	high	Glaciofluvial	High	250 eq/ha/yr	3.66
195	99	99d	7zsgFGt 3Apk w-r	ESSFmv2	ESSFmv2 01 FR	2	4	6	SMU-FG1	FG2_B	coarse S - L	high	Glaciofluvial	High	250 eq/ha/yr	2.50

Appendix 11-B. Murray River Coal Project: Summary of Acid Sensitivity by Parent Material and Ecological Rating

Sequence	Terrain Poygon ID	TEM Polygon ID	Terrain Label	BEC_variant	TEM_Label	SMR1	SMR2	SMR3	SMUgroup	Soil Mapping Unit	Texture Group	Coarse Fragments	Parent Material	Acid Sensitivity	Critical Load	Area_ha
196	99	99e	7zsgFGt 3Apk w-r	ESSFmv2	ESSFmv2 01 FR	n	4	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	3.16
197	99	99f	7zsgFGt 3Apk w-r	ESSFmv2	ESSFmv2 03 BT	4	4	6	SMU-FG1	FG4_B	coarse S - L	high	Glaciofluvial	High	250 eq/ha/yr	3.94
198	100	100a	uOph v	ESSFmv2	ESSFmv2 0 Wb06	7	7	-	SMU-O1	O7_M	Organic	None	Organic	Moderate	500 eq/ha/yr	6.79
199	100	100b	uOph v	ESSFmv2	-	?	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	0.31
200	101	101	8Fuj 2/Mbu-L i-p	ESSFmv2	ESSFmv2 06 FH	5	6	-	SMU-F2	F5_B.g	moderately coarse L	high	Fluvial	Moderate	500 eq/ha/yr	2.65
201	102	102	9uObp 1Fp	ESSFmv2	-	7	-	-	SMU-O1	O7_M	Organic	None	Organic	Moderate	500 eq/ha/yr	6.86
202	103	103	8gcMv 2Cwak i-m	BWBSwk1	-	5	-	-	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	3.34
203	104	104	Mwu w-m	BWBSwk1	BWBSwk1 103 103	3	5	-	SMU-M1	M3_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	3.51
204	105	105	8Cwk 2Fv/Mj-L w-i	BWBSwk1	-	5	-	-	SMU-C2	C5_B.g	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	2.18
205	106	106a	9Cwkas 1Cx/Rs-Rb r-w	BWBSwk1	BWBSwk1 103 103	4	5	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	8.35
206	106	106b	9Cwkas 1Cx/Rs-Rb r-w	BWBSwk1	-	3	-	-	SMU-C1	C3_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	2.72
207	106	106c	9Cwkas 1Cx/Rs-Rb r-w	BWBSwk1	BWBSwk1 101 101	3	4	-	SMU-C1	C3_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	1.97
208	106	106d	9Cwkas 1Cx/Rs-Rb r-w	BWBSwk1	BWBSwk1 110\$ 110\$	3	5	-	SMU-C1	C3_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	10.11
209	106	106e	9Cwkas 1Cx/Rs-Rb r-w	BWBSwk1	-	3	-	-	SMU-C1	C3_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	4.71
210	107	107a	zcMbj w	BWBSwk1	BWBSwk1 110 110	4	5	3	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	3.13
211	107	107b	zcMbj w	BWBSwk1	BWBSwk1 110 110	4	5	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	2.41
212	108	108a	5Ck 5zcgMba w	BWBSwk1	BWBSwk1 101 101	4	4	5	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	15.14
213	108	108b	5Ck 5zcgMba w	ESSFmv2	ESSFmv2 02 FL	4	2	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	7.06
214	108	108c	5Ck 5zcgMba w	ESSFmv2	ESSFmv2 01 FR	4	4	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	5.30
215	108	108d	5Ck 5zcgMba w	BWBSwk1	BWBSwk1 101 101	4	4	3	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	12.17
216	109	109a	czMj m-i	BWBSwk1	BWBSwk1 110 110	4	5	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	18.99
217	109	109b	czMj m-i	BWBSwk1	BWBSwk1 101 101	4	4	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	17.25
218	109	109c	czMj m-i	BWBSwk1	BWBSwk1 110 110	4	5	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	4.56
219	109	109d	czMj m-i	BWBSwk1	-	5	-	-	SMU-M2	M5_B.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	1.81
220	109	109e	czMj m-i	BWBSwk1	BWBSwk1 101 101	5	4	-	SMU-M2	M5_B.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	1.63
221	109	109f	czMj m-i	BWBSwk1	BWBSwk1 110 110	5	5	-	SMU-M2	M5_B.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	3.95
222	109	109g	czMj m-i	BWBSwk1	-	5	-	-	SMU-M2	M5_B.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	0.47
223	110	110a	zcgMbj w	ESSFmv2	ESSFmv2 05 FD	5	5	-	SMU-M2	M5_B.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	4.38
224	110	110b	zcgMbj w	ESSFmv2	-	5	-	-	SMU-M2	M5_B.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	3.29
225	110	110c	zcgMbj w	ESSFmv2	ESSFmv2 05 FD	5	5	n	SMU-M2	M5_B.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	4.25
226	110	110d	zcgMbj w	ESSFmv2	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	1.01
227	111	111a	czsMwj w	BWBSwk1	BWBSwk1 101 101	4	4	5	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	38.02
228	111	111b	czsMwj w	ESSFmv2	ESSFmv2 05 FD	4	5	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	13.95
229	111	111c	czsMwj w	ESSFmv2	-	4	-	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	1.96
230	111	111d	czsMwj w	BWBSwk1	BWBSwk1 110 110	4	5	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	10.48
231	111	111e	czsMwj w	ESSFmv2	ESSFmv2 0 RZ	5	n	-	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	0.99
232	111	111f	czsMwj w	BWBSwk1	BWBSwk1 110 110	5	5	-	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	3.30
233	111	111g	czsMwj w	BWBSwk1	BWBSwk1 110 110	5	5	-	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	4.43
234	111	111h	czsMwj w	BWBSwk1	-	4	-	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	0.82
235	112	112a	9gzcmwmj 1Fv/Mbj-L w-i	BWBSwk1	BWBSwk1 0 RZ	4	n	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	4.21
236	112	112b	9gzcmwmj 1Fv/Mbj-L w-i	BWBSwk1	-	5	-	-	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	0.70
237	112	112c	9gzcmwmj 1Fv/Mbj-L w-i	BWBSwk1	BWBSwk1 110 110	4	5	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	22.37
238	113	113a	3Obd 4PO 3Mbp-L i-m	ESSFmv2	ESSFmv2 0 Ws	5	6	-	SMU-O2	O5_G.p	Organic	None	Organic	Moderate	500 eq/ha/yr	0.99
239	113	113b	3Obd 4PO 3Mbp-L i-m	ESSFmv2	-	7	-	-	SMU-O2	F7_G.p	Organic	None	Organic	Moderate	500 eq/ha/yr	0.78
240	113	113c	3Obd 4PO 3Mbp-L i-m	ESSFmv2	ESSFmv2 0 Ws	99	6	-	OpWater	OW99_n	Open Water	-	-	not rated	-	0.49
241	114	114	czgMwj w	ESSFmv2	ESSFmv2 05 FD	4	5	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	15.75
242	115	115a	8czMwmj 2Mw-L w-i	ESSFmv2	ESSFmv2 05 FD	4	5	n	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	14.74
243	115	115b	8czMwmj 2Mw-L w-i	ESSFmv2	ESSFmv2 04 FO	4	4	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	4.10
244	115	115c	8czMwmj 2Mw-L w-i	ESSFmv2	ESSFmv2 05 FD	4	5	n	SMU-M1	M4_B.lit	mod-fine CL-SiCl	moder	Till neutral	Moderate	500 eq/ha/yr	4.32
245	115	115d	8czMwmj 2Mw-L w-i	ESSFmv2	-	4	-	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	7.99
246	115	115e	8czMwmj 2Mw-L w-i	ESSFmv2	ESSFmv2 02 FL	4	2	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	3.55
247	116	116	Cwk w-r	ESSFmv2	-	2	-	-	SMU-C1	C2_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	3.98
248	117	117a	8zcgMva w 2zcgMwj-L i	ESSFmv2	ESSFmv2 01 FR	4	4	6	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	11.21
249	117	117b	8zcgMva w 2zcgMwj-L i	ESSFmv2	ESSFmv2 01 FR	4	4	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	5.47
250	117	117c	8zcgMva w 2zcgMwj-L i	ESSFmv2	ESSFmv2 05 FD	5	5	-	SMU-M2	M5_B.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	0.70
251	117	117d	8zcgMva w 2zcgMwj-L i	ESSFmv2	ESSFmv2 05 FD	4	5	-	SMU-M1	M4_B.lit	mod-fine CL-SiCl	moder	Till neutral	Moderate	500 eq/ha/yr	2.40
252	117	117e	8zcgMva w 2zcgMwj-L i	ESSFmv2	ESSFmv2 05 FD	5	5	-	SMU-M2	M5_B.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	1.00
253	117	117f	8zcgMva w 2zcgMwj-L i	ESSFmv2	-	6	-	-	SMU-M2	M6_G	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	0.43
254	117	117g	8zcgMva w 2zcgMwj-L i	ESSFmv2	ESSFmv2 05 FD	5	5	-	SMU-M2	M5_B.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	1.08
255	118	118	Mbj w	ESSFmv2	ESSFmv2 01 FR	n	4	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	0.48
256	119	119	zcMbu m	BWBSwk1	-	3	-	-	SMU-M1	M3_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	1.95
257	120	120a	9zcMbp 1zcMbu m-i	BWBSwk1	BWBSwk1 101 101	4	4	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	19.44
258	120	120b	9zcMbp 1zcMbu m-i	ESSFmv2	ESSFmv2 04 FO	4	4	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	9.10
259	120	120c	9zcMbp 1zcMbu m-i	ESSFmv2	ESSFmv2 04 FO	4	4	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	6.62
260	120	120d	9zcMbp 1zcMbu m-i	ESSFmv2	ESSFmv2 06 FH	4	6	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	1.13

Appendix 11-B. Murray River Coal Project: Summary of Acid Sensitivity by Parent Material and Ecological Rating

Sequence	Terrain Poygon ID	TEM Polygon ID	Terrain Label	BEC_variant	TEM_Label	SMR1	SMR2	SMR3	SMUgroup	Soil Mapping Unit	Texture Group	Coarse Fragments	Parent Material	Acid Sensitivity	Critical Load	Area_ha
261	120	120e	9zcMbp 1zcMbu m-i	BWBSwk1	BWBSwk1 101 101	4	4	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	10.30
262	120	120f	9zcMbp 1zcMbu m-i	BWBSwk1	-	4	-	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	8.23
263	120	120g	9zcMbp 1zcMbu m-i	BWBSwk1	BWBSwk1 101 101	4	4	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	1.62
264	120	120h	9zcMbp 1zcMbu m-i	BWBSwk1	-	4	-	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	2.74
265	120	120i	9zcMbp 1zcMbu m-i	BWBSwk1	BWBSwk1 110 110	4	5	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	2.15
266	120	120j	9zcMbp 1zcMbu m-i	BWBSwk1	BWBSwk1 0 Ws	5	6	-	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	0.93
267	121	121a	Ob/Fp-L - p	BWBSmw0	BWBSmw0 0 Wm01	6	7	99	SMU-F2	F6_G.p	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	4.09
268	121	121b	Ob/Fp-L - p	BWBSmw0	BWBSmw0 0 Wm01	6	7	99	SMU-F2	F6_G.p	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	3.82
269	122	122a	4FGup 4Fpu-L 2PO w-p	ESSFmv2	ESSFmv2 06 FH	5	6	99	SMU-FG3	FG5_B.g	coarse S - L	high	Glaciofluvial	Moderate	500 eq/ha/yr	3.03
270	122	122b	4FGup 4Fpu-L 2PO w-p	BWBSwk1	-	5	-	-	SMU-FG3	FG5_BR.GL.g	coarse S - L	high	Glaciofluvial	Moderate	500 eq/ha/yr	1.96
271	123	123a	Mbj-F" c w-m	BWBSwk1	BWBSwk1 110 110	3	5	3	SMU-M1	M3_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	8.50
272	123	123b	Mbj-F" c w-m	BWBSwk1	BWBSwk1 110 110	4	5	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	1.63
273	124	124a	6zcMbj-L 4Mb/Ru i-w	BWBSmw0	BWBSmw0 111 111	4	6	3	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	20.50
274	124	124b	6zcMbj-L 4Mb/Ru i-w	BWBSmw0	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	0.30
275	124	124c	6zcMbj-L 4Mb/Ru i-w	BWBSmw0	BWBSmw0 101 101	6	4	-	SMU-M2	M6_G	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	0.64
276	124	124d	6zcMbj-L 4Mb/Ru i-w	BWBSmw0	BWBSmw0 111 111	6	6	-	SMU-M2	M6_G	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	0.22
277	124	124e	6zcMbj-L 4Mb/Ru i-w	BWBSmw0	BWBSmw0 101 101	6	4	-	SMU-M2	M6_G	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	0.28
278	124	124f	6zcMbj-L 4Mb/Ru i-w	BWBSmw0	BWBSmw0 0 OW	6	99	-	SMU-F2	F6_G.p	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	0.17
279	125	125	Mbuj-E m-w	BWBSmw0	-	6	-	-	SMU-M2	M6_G	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	3.10
280	126	126	6FGv/Mbtja 4zsFGuj w	BWBSmw0	BWBSmw0 104 104	4	5	6	SMU-FG2	FG M4_B	coarse S - L	high	Glaciofluvial	Moderate	500 eq/ha/yr	47.39
281	127	127a	szFfp i-m	BWBSmw0	BWBSmw0 111\$ 111\$	6	6	-	SMU-F2	F6_GLCU. R.	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	5.77
282	127	127b	szFfp i-m	BWBSmw0	-	5	-	-	SMU-F2	F5_B.g	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	1.12
283	127	127c	szFfp i-m	BWBSmw0	BWBSmw0 111 111	n	6	6	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	4.71
284	127	127d	szFfp i-m	BWBSmw0	-	5	-	-	SMU-F2	F5_B.g	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	1.07
285	127	127e	szFfp i-m	BWBSmw0	-	5	-	-	SMU-F2	F5_B.g	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	0.65
286	127	127f	szFfp i-m	BWBSmw0	-	6	-	-	SMU-F2	F6_GLCU. R.	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	3.39
287	127	127g	szFfp i-m	BWBSmw0	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	0.73
288	127	127h	szFfp i-m	BWBSmw0	BWBSmw0 104 104	6	5	-	SMU-F2	F6_G	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	6.35
289	127	127i	szFfp i-m	BWBSmw0	-	5	-	-	SMU-F2	F5_B.g	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	1.07
290	127	127j	szFfp i-m	BWBSmw0	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	3.19
291	128	128	6Apa 4W w	BWBSmw0	BWBSmw0 101 101	99	4	-	OpWater	OW99_n	Open Water	-	-	not rated	-	3.42
292	129	129a	9cFp-U 1W i-p	BWBSmw0	BWBSmw0 0 Wm01	6	7	99	SMU-F2	F6_G.p	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	25.39
293	129	129b	9cFp-U 1W i-p	BWBSmw0	BWBSmw0 112 112	6	6	-	SMU-F2	F6_GLCU. R.	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	3.80
294	129	129c	9cFp-U 1W i-p	BWBSmw0	BWBSmw0 0 Ws	7	6	7	SMU-O1	O7_M.t	Organic	None	Organic	Moderate	500 eq/ha/yr	6.88
295	129	129d	9cFp-U 1W i-p	BWBSmw0	BWBSmw0 0 FI05	6	6	-	SMU-F2	F6_GLCU. R.	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	18.18
296	129	129e	9cFp-U 1W i-p	BWBSmw0	-	6	-	-	SMU-F2	F6_GLCU. R.	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	2.74
297	129	129f	9cFp-U 1W i-p	BWBSmw0	-	6	-	-	SMU-F2	F6_GLCU. R.	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	0.62
298	129	129g	9cFp-U 1W i-p	BWBSmw0	BWBSmw0 112 112	n	6	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	1.06
299	129	129h	9cFp-U 1W i-p	BWBSmw0	BWBSmw0 0 FI05	6	6	-	SMU-F2	F6_GLCU. R.	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	5.13
300	129	129i	9cFp-U 1W i-p	BWBSmw0	BWBSmw0 112 112	6	6	-	SMU-F2	F6_GLCU. R.	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	12.43
301	130	130	8Abu 2Mwu w-r	BWBSmw0	BWBSmw0 101 101	n	4	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	10.98
302	131	131	Apu w	BWBSmw0	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	41.64
303	132	132	7Apuj 1PO 2Mv/Rh w	BWBSmw0	BWBSmw0 103 103	n	4	99	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	28.89
304	133	133	8Mbuj 2Mba w	BWBSmw0	BWBSmw0 101 101	3	4	n	SMU-FG2	FG M3_B	coarse S - L	high	Glaciofluvial	Moderate	500 eq/ha/yr	7.00
305	134	134	Apuj w	BWBSmw0	BWBSmw0 0 RZ	n	n	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	20.74
306	135	135	Fpu-L i	BWBSmw0	-	6	-	-	SMU-F2	F6_GLCU. R.	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	3.01
307	136	136a	8zcMvj 2Op w-v	BWBSmw0	BWBSmw0 0 OW	7	99	-	SMU-O2	F7_G.p	Organic	None	Organic	Moderate	500 eq/ha/yr	1.25
308	136	136b	8zcMvj 2Op w-v	BWBSmw0	BWBSmw0 101 101	3	4	6	SMU-M1	M3_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	17.84
309	137	137	Ovb/Mu-L i-p	BWBSmw0	-	7	-	-	SMU-O1	O7_M	Organic	None	Organic	Moderate	500 eq/ha/yr	1.16
310	138	138	Mbka w	BWBSmw0	BWBSmw0 103 103	n	3	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	3.78
311	139	139	4Mbu 4FGt 2Fj-V i-m	BWBSmw0	-	4	-	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	5.44
312	140	140	gkAj r	BWBSwk1	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	19.18
313	141	141	Fp-L i	BWBSmw0	BWBSmw0 101 101	6	4	n	SMU-F2	F6_GLCU. R.	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	2.53
314	142	142a	Mbj-LE w-i	BWBSwk1	-	6	-	-	SMU-M2	M6_G	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	1.39
315	142	142b	Mbj-LE w-i	BWBSwk1	-	6	-	-	SMU-F2	F6_G.p	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	0.68
316	142	142c	Mbj-LE w-i	BWBSwk1	-	6	-	-	SMU-M2	M6_G	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	0.36
317	142	142d	Mbj-LE w-i	BWBSwk1	-	6	-	-	SMU-F2	F6_G.p	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	1.35
318	143	143a	8Mw/Rtja 2Mw-L w-i	ESSFmv2	ESSFmv2 04 FO	4	4	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	10.76
319	143	143b	8Mw/Rtja 2Mw-L w-i	BWBSwk1	-	5	-	-	SMU-M2	M5_B.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	4.63
320	143	143c	8Mw/Rtja 2Mw-L w-i	ESSFmv2	-	4	-	-	SMU-M1	M4_B.lit	mod-fine CL-SiCl	moder	Till neutral	Moderate	500 eq/ha/yr	0.24
321	143	143d	8Mw/Rtja 2Mw-L w-i	BWBSwk1	-	5	-	-	SMU-M2	M5_B.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	2.55
322	143	143e	8Mw/Rtja 2Mw-L w-i	BWBSwk1	BWBSwk1 101 101	5	4	-	SMU-M2	M5_B.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	3.44
323	143	143f	8Mw/Rtja 2Mw-L w-i	BWBSwk1	-	5	-	-	SMU-M2	M5_B.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	3.65
324	143	143g	8Mw/Rtja 2Mw-L w-i	ESSFmv2	ESSFmv2 03 BT	4	4	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	13.01
325	143	143h	8Mw/Rtja 2Mw-L w-i	ESSFmv2	-	4	-	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	3.48

Appendix 11-B. Murray River Coal Project: Summary of Acid Sensitivity by Parent Material and Ecological Rating

Sequence	Terrain Poygon ID	TEM Polygon ID	Terrain Label	BEC_variant	TEM_Label	SMR1	SMR2	SMR3	SMUgroup	Soil Mapping Unit	Texture Group	Coarse Fragments	Parent Material	Acid Sensitivity	Critical Load	Area_ha
326	143	143i	8Mw/Rtja 2Mw-L w-i	ESSFmv2	-	4	-	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	12.17
327	143	143j	8Mw/Rtja 2Mw-L w-i	BWBSwk1	BWBSwk1 101\$ 101\$	5	4	-	SMU-M2	M5_B.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	10.73
328	143	143k	8Mw/Rtja 2Mw-L w-i	ESSFmv2	ESSFmv2 01 FR	4	4	6	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	22.97
329	143	143l	8Mw/Rtja 2Mw-L w-i	ESSFmv2	-	4	-	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	7.61
330	143	143m	8Mw/Rtja 2Mw-L w-i	ESSFmv2	ESSFmv2 04 FO	4	4	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	5.37
331	143	143n	8Mw/Rtja 2Mw-L w-i	ESSFmv2	ESSFmv2 06 FH	4	6	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	3.69
332	143	143o	8Mw/Rtja 2Mw-L w-i	ESSFmv2	ESSFmv2 04 FO	4	4	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	8.07
333	143	143p	8Mw/Rtja 2Mw-L w-i	ESSFmv2	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	2.07
334	143	143q	8Mw/Rtja 2Mw-L w-i	ESSFmv2	ESSFmv2 04 FO	4	4	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	7.66
335	143	143r	8Mw/Rtja 2Mw-L w-i	ESSFmv2	ESSFmv2 01 FR	n	4	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	3.15
336	144	144	Ov/Mbd p	ESSFmv2	-	7	-	-	SMU-O1	O7_M.t	Organic	None	Organic	Moderate	500 eq/ha/yr	0.87
337	145	145a	Cvr r	ESSFmv2	ESSFmv2 02 FL	4	2	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	1.10
338	145	145b	Cvr r	ESSFmv2	ESSFmv2 01 FR	0	4	2	SMU-R	R0_n	very coarse	very high	Neutral (shale)	High	250 eq/ha/yr	1.08
339	146	146	PO	BWBSmw0	-	99	-	-	OpWater	OW99_n	Open Water	-	-	not rated	-	1.23
340	147	147a	Cfj w-i	BWBSmw0	BWBSmw0 101 101	4	4	-	SMU-F1	F4_CU.R	coarse S-LS	high	Fluvial	High	250 eq/ha/yr	4.71
341	147	147b	Cfj w-i	BWBSmw0	BWBSmw0 101 101	4	4	-	SMU-F1	F4_CU.R	coarse S-LS	high	Fluvial	High	250 eq/ha/yr	2.94
342	148	148	FGtj w	BWBSmw0	BWBSmw0 101 101	4	4	-	SMU-FG1	FG4_B	coarse S - L	high	Glaciofluvial	High	250 eq/ha/yr	19.27
343	149	149	6Cva 4Rr r	ESSFmv2	ESSFmv2 02 FL	2	2	-	SMU-C1	C2_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	3.39
344	150	150	8Op 2W v	BWBSmw0	BWBSmw0 0 OW	7	99	-	SMU-O2	F7_G.p	Organic	None	Organic	Moderate	500 eq/ha/yr	1.02
345	151	151	6Ff 4Ov-Fp i-v	BWBSwk1	BWBSwk1 0 Ws	6	6	-	SMU-F2	F6_G.p	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	2.25
346	152	152a	Mbj w	BWBSwk1	BWBSwk1 110 110	4	5	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	6.59
347	152	152b	Mbj w	BWBSwk1	-	4	-	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	4.94
348	152	152c	Mbj w	BWBSwk1	-	4	-	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	1.07
349	153	153	Apr r	BWBSmw0	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	2.76
350	154	154	zcdMkj w	ESSFmv2	ESSFmv2 01 FR	4	4	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	4.26
351	155	155a	zcMvju i	ESSFmv2	ESSFmv2 04 FO	4	4	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	2.28
352	155	155b	zcMvju i	ESSFmv2	-	4	-	-	SMU-M1	M4_B.lit	mod-fine CL-SiCl	moder	Till neutral	Moderate	500 eq/ha/yr	0.37
353	155	155c	zcMvju i	ESSFmv2	-	5	-	-	SMU-M2	M5_B.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	0.12
354	155	155d	zcMvju i	ESSFmv2	-	4	-	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	0.65
355	156	156	zcgMwuj w	BWBSwk1	-	4	-	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	6.03
356	157	157a	7Mbuj-L 3Fv/Rj-LV i-m	BWBSwk1	BWBSwk1 104 104	5	4	-	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	3.33
357	157	157b	7Mbuj-L 3Fv/Rj-LV i-m	BWBSwk1	BWBSwk1 110 110	4	5	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	0.81
358	157	157c	7Mbuj-L 3Fv/Rj-LV i-m	BWBSwk1	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	0.26
359	158	158a	sgFp r-m	ESSFmv2	ESSFmv2 05 FD	5	5	99	SMU-F2	F5_B.g	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	7.95
360	158	158b	sgFp r-m	BWBSwk1	BWBSwk1 0 RI	5	99	-	SMU-F2	F5_B.g	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	3.46
361	159	159	Ov szcFlp	ESSFmv2	ESSFmv2 0 Ws07	6	6	-	SMU-O2	O M6_G.p	Organic	None	Organic	Moderate	500 eq/ha/yr	3.49
362	160	160	Mbj i-p	ESSFmv2	ESSFmv2 04 FO	4	4	-	SMU-M1	M4_B.lit	mod-fine CL-SiCl	moder	Till neutral	Moderate	500 eq/ha/yr	0.73
363	161	161	FGp-L m-i	ESSFmv2	ESSFmv2 04 FO	?	4	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	2.60
364	162	162a	6Mw/Rj 4Mw/Ru-L w-m	ESSFmv2	ESSFmv2 06 FH	5	6	-	SMU-M2	M5_B.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	4.22
365	162	162b	6Mw/Rj 4Mw/Ru-L w-m	ESSFmv2	ESSFmv2 04 FO	4	4	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	3.60
366	163	163	7Cwka 3Mba r-m	BWBSwk1	-	5	-	-	SMU-C2	C5_B.g	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	3.49
367	164	164	Cks-R's i-m	BWBSwk1	-	3	-	-	SMU-C1	C3_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	0.88
368	165	165	Mvx/Rr r-w	ESSFmv2	-	2	-	-	SMU-M1	M2_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	0.93
369	166	166	Cwka w	ESSFmv2	-	4	-	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	1.18
370	167	167	9uOph 1FGjp-L v-p	ESSFmv2	ESSFmv2 0 Wb06	7	7	-	SMU-O1	O7_M	Organic	None	Organic	Moderate	500 eq/ha/yr	2.36
371	168	168	5Mbj 5Mbj-L w-i	BWBSwk1	BWBSwk1 110\$ 110\$	5	5	-	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	3.30
372	169	169a	dzcMbja w-m	BWBSwk1	BWBSwk1 110 110	4	5	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	6.07
373	169	169b	dzcMbja w-m	BWBSwk1	BWBSwk1 0 RZ	3	n	-	SMU-M1	M3_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	5.05
374	170	170	Mwja w	BWBSwk1	-	5	-	-	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	10.95
375	171	171a	ckgFGp p	BWBSmw0	BWBSmw0 104 104	4	5	-	SMU-FG1	FG4_B	coarse S - L	high	Glaciofluvial	High	250 eq/ha/yr	7.41
376	171	171b	ckgFGp p	BWBSmw0	BWBSmw0 111 111	4	6	-	SMU-FG1	FG4_B	coarse S - L	high	Glaciofluvial	High	250 eq/ha/yr	1.21
377	171	171c	ckgFGp p	BWBSmw0	BWBSmw0 104 104	4	5	-	SMU-FG1	FG4_B	coarse S - L	high	Glaciofluvial	High	250 eq/ha/yr	5.29
378	171	171d	ckgFGp p	BWBSmw0	BWBSmw0 104 104	4	5	-	SMU-FG1	FG4_B	coarse S - L	high	Glaciofluvial	High	250 eq/ha/yr	4.65
379	171	171e	ckgFGp p	BWBSmw0	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	1.53
380	172	172	Cws-R's w-i	BWBSmw0	BWBSmw0 102 102	3	2	-	SMU-C1	C3_B.lit	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	15.64
381	173	173a	Ovb/Ffp Fp-L p-v	BWBSmw0	BWBSmw0 101 101	6	4	4	SMU-O2	O M6_G.p	Organic	None	Organic	Moderate	500 eq/ha/yr	15.54
382	173	173b	Ovb/Ffp Fp-L p-v	BWBSmw0	-	6	-	-	SMU-O2	O M6_G.p	Organic	None	Organic	Moderate	500 eq/ha/yr	0.44
383	173	173c	Ovb/Ffp Fp-L p-v	BWBSmw0	-	6	-	-	SMU-O2	O M6_G.p	Organic	None	Organic	Moderate	500 eq/ha/yr	0.82
384	174	174	Obp v	BWBSmw0	BWBSmw0 0 Wb09	7	7	-	SMU-O1	O7_M	Organic	None	Organic	Moderate	500 eq/ha/yr	2.18
385	175	175	7FGh 3Fu-L w-i	BWBSmw0	BWBSmw0 0 RI	4	99	-	SMU-FG1	FG4_B	coarse S - L	high	Glaciofluvial	High	250 eq/ha/yr	13.66
386	176	176a	5FGp 5Ovp i-p	BWBSmw0	BWBSmw0 0 Ws	6	6	-	SMU-F2	F6_G.p	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	2.34
387	176	176b	5FGp 5Ovp i-p	BWBSmw0	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	0.81
388	176	176c	5FGp 5Ovp i-p	BWBSmw0	BWBSmw0 0 RZ	6	n	-	SMU-FG3	FG6_G	coarse S - L	high	Glaciofluvial	Moderate	500 eq/ha/yr	0.72
389	177	177	szcFp m	BWBSmw0	BWBSmw0 111 111	4	6	n	SMU-F1	F4_CU.R	coarse S-LS	high	Fluvial	High	250 eq/ha/yr	12.98
390	178	178	5Fp-L 5Ov-L i	BWBSmw0	BWBSmw0 111 111	99	6	-	OpWater	OW99_n	Open Water	-	-	not rated	-	1.10

Appendix 11-B. Murray River Coal Project: Summary of Acid Sensitivity by Parent Material and Ecological Rating

Sequence	Terrain Poygon ID	TEM Polygon ID	Terrain Label	BEC_variant	TEM_Label	SMR1	SMR2	SMR3	SMUgroup	Soil Mapping Unit	Texture Group	Coarse Fragments	Parent Material	Acid Sensitivity	Critical Load	Area_ha
391	179	179	9Ff 1RI i	BWBSmw0	BWBSmw0 101 101	99	4	n	SMU-F2	F5_n	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	2.16
392	180	180a	7Ov 3FGp p-w	BWBSmw0	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	0.71
393	180	180b	7Ov 3FGp p-w	BWBSmw0	BWBSmw0 0 Wm	6	7	-	SMU-F2	F6_G.p	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	2.19
394	180	180c	7Ov 3FGp p-w	BWBSmw0	BWBSmw0 0 RZ	n	n	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	2.03
395	180	180d	7Ov 3FGp p-w	BWBSmw0	BWBSmw0 0 Wm	6	7	99	SMU-F2	F6_G.p	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	0.67
396	180	180e	7Ov 3FGp p-w	BWBSmw0	-	6	-	-	SMU-F2	F6_G.p	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	2.38
397	180	180f	7Ov 3FGp p-w	BWBSmw0	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	0.46
398	181	181	Mvk w	BWBSmw0	BWBSmw0 104 104	2	5	-	SMU-M1	M2_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	9.77
399	182	182a	zsFGk w	BWBSmw0	BWBSmw0 103 103	n	3	3	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	13.15
400	182	182b	zsFGk w	BWBSmw0	-	3	-	-	SMU-F1	F3_B	coarse S-LS	high	Fluvial	High	250 eq/ha/yr	1.28
401	183	183a	FGpm w-r	BWBSmw0	BWBSmw0 0 RZ	n	n	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	24.47
402	183	183b	FGpm w-r	BWBSmw0	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	3.10
403	183	183c	FGpm w-r	BWBSmw0	-	2	-	-	SMU-FG1	FG2_B	coarse S - L	high	Glaciofluvial	High	250 eq/ha/yr	0.48
404	183	183d	FGpm w-r	BWBSmw0	BWBSmw0 102 102	2	2	-	SMU-FG1	FG2_B	coarse S - L	high	Glaciofluvial	High	250 eq/ha/yr	1.23
405	183	183e	FGpm w-r	BWBSmw0	-	3	-	-	SMU-F1	F3_B	coarse S-LS	high	Fluvial	High	250 eq/ha/yr	3.16
406	184	184a	5PO 5zsFp-B i	BWBSmw0	BWBSmw0 0 F105	99	6	-	OpWater	OW99_n	Open Water	-	-	not rated	-	23.19
407	184	184b	5PO 5zsFp-B i	BWBSmw0	BWBSmw0 101 101	6	4	-	SMU-F2	F6_G.r	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	3.78
408	184	184c	5PO 5zsFp-B i	BWBSmw0	BWBSmw0 112 112	99	6	6	OpWater	OW99_n	Open Water	-	-	not rated	-	2.45
409	185	185a	7Fp 3Ov/zcLp m-p	BWBSmw0	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	2.08
410	185	185b	7Fp 3Ov/zcLp m-p	BWBSmw0	-	7	-	-	SMU-O2	F7_G.p	Organic	None	Organic	Moderate	500 eq/ha/yr	1.15
411	185	185c	7Fp 3Ov/zcLp m-p	BWBSmw0	BWBSmw0 112 112	6	6	-	SMU-F2	F6_GLCU. R.	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	1.05
412	186	186a	5zgsFGka 5Abks w-r	BWBSmw0	BWBSmw0 101 101	2	4	-	SMU-FG1	FG2_BR.GL	coarse S - L	high	Glaciofluvial	High	250 eq/ha/yr	5.53
413	186	186b	5zgsFGka 5Abks w-r	BWBSmw0	BWBSmw0 102 102	n	2	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	3.21
414	186	186c	5zgsFGka 5Abks w-r	BWBSmw0	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	1.68
415	187	187	7FGpu 3Mbj-L w-i	BWBSmw0	BWBSmw0 0 RZ	4	n	99	SMU-FG1	FG4_B	coarse S - L	high	Glaciofluvial	High	250 eq/ha/yr	3.53
416	188	188	5FGks 5Rs-R'sf r	BWBSmw0	BWBSmw0 0 CL	2	0	-	SMU-FG1	FG2_B	coarse S - L	high	Glaciofluvial	High	250 eq/ha/yr	1.43
417	189	189	gFka w	BWBSmw0	BWBSmw0 101 101	5	4	-	SMU-F2	F5_B.g	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	3.77
418	190	190a	8Ovb/zFp 2PO p	BWBSmw0	BWBSmw0 0 OW	6	99	-	SMU-F2	F6_G.p	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	0.51
419	190	190b	8Ovb/zFp 2PO p	BWBSmw0	BWBSmw0 0 OW	7	99	6	SMU-O2	F7_G.p	Organic	None	Organic	Moderate	500 eq/ha/yr	2.20
420	190	190c	8Ovb/zFp 2PO p	BWBSmw0	-	6	-	-	SMU-O2	O M6_G.p	Organic	None	Organic	Moderate	500 eq/ha/yr	0.80
421	191	191	Ov/Fp p-i	BWBSmw0	BWBSmw0 104 104	6	5	n	SMU-O2	O M6_G.p	Organic	None	Organic	Moderate	500 eq/ha/yr	6.70
422	192	192	Cw/Rks-R's r-m	BWBSmw0	BWBSmw0 101 101	4	4	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	2.22
423	193	193a	7Mw/Rka 3Rks-R'bf r-w	BWBSmw0	BWBSmw0 0 CL	2	0	-	SMU-M1	M2_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	6.61
424	193	193b	7Mw/Rka 3Rks-R'bf r-w	BWBSmw0	BWBSmw0 102 102	2	2	-	SMU-M1	M2_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	2.21
425	193	193c	7Mw/Rka 3Rks-R'bf r-w	BWBSmw0	BWBSmw0 0 CL	2	0	-	SMU-M1	M2_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	0.59
426	194	194	Apju w-r	BWBSmw0	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	2.58
427	195	195	7Apuj 3Ak w	BWBSmw0	BWBSmw0 0 RZ	n	n	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	10.60
428	196	196	Mjr m	BWBSmw0	-	4	-	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	2.78
429	197	197a	FGvx/Mbjp w	BWBSmw0	BWBSmw0 101 101	4	4	-	SMU-FG2	FG M4_B	coarse S - L	high	Glaciofluvial	Moderate	500 eq/ha/yr	37.62
430	197	197b	FGvx/Mbjp w	BWBSmw0	-	4	-	-	SMU-FG2	FG M4_B	coarse S - L	high	Glaciofluvial	Moderate	500 eq/ha/yr	21.90
431	198	198	Ovp p-v	BWBSmw0	-	7	-	-	SMU-O1	O7_M	Organic	None	Organic	Moderate	500 eq/ha/yr	2.43
432	199	199	Mbja-L m-i	BWBSmw0	BWBSmw0 111 111	4	6	-	SMU-M1	M4_B.lit	mod-fine CL-SiCl	moder	Till neutral	Moderate	500 eq/ha/yr	3.17
433	200	200	Mbu-L i-m	BWBSmw0	-	4	-	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	4.24
434	201	201	Mbju-L m-i	BWBSmw0	-	4	-	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	3.70
435	202	202	Mbu-L i	BWBSmw0	-	4	-	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	1.62
436	203	203	Mbju-L m	BWBSmw0	-	4	-	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	1.20
437	204	204	zsFGv/gzcMuj-L i	BWBSmw0	-	4	-	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	3.19
438	205	205	uOb/Mpu p-v	BWBSmw0	-	7	-	-	SMU-O1	O7_M	Organic	None	Organic	Moderate	500 eq/ha/yr	2.78
439	206	206	sFGv/cMj m	BWBSmw0	BWBSmw0 101 101	4	4	-	SMU-FG1	FG4_B	coarse S - L	high	Glaciofluvial	High	250 eq/ha/yr	22.23
440	207	207a	6zsFGv/gzcMup 4Mbup w	BWBSmw0	BWBSmw0 101 101	4	4	3	SMU-FG2	FG M4_B	coarse S - L	high	Glaciofluvial	Moderate	500 eq/ha/yr	25.33
441	207	207b	6zsFGv/gzcMup 4Mbup w	BWBSmw0	BWBSmw0 101 101	4	4	4	SMU-FG2	FG M4_B	coarse S - L	high	Glaciofluvial	Moderate	500 eq/ha/yr	25.09
442	207	207c	6zsFGv/gzcMup 4Mbup w	BWBSmw0	BWBSmw0 103 103	4	3	-	SMU-FG2	FG M4_B	coarse S - L	high	Glaciofluvial	Moderate	500 eq/ha/yr	15.72
443	207	207d	6zsFGv/gzcMup 4Mbup w	BWBSmw0	BWBSmw0 101 101	4	4	-	SMU-FG2	FG M4_B	coarse S - L	high	Glaciofluvial	Moderate	500 eq/ha/yr	9.81
444	208	208	Mbj-EV i	BWBSmw0	BWBSmw0 101 101	4	4	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	1.88
445	209	209	9Abpu 1PO w	BWBSmw0	BWBSmw0 0 PD	n	99	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	60.91
446	210	210	Ap w	BWBSmw0	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	13.76
447	211	211	7Mwja 3Mbj-L w-i	BWBSmw0	-	4	-	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	12.66
448	212	212	Mw/Rjh w	BWBSmw0	BWBSmw0 103 103	3	3	n	SMU-FG2	FG M3_BR.GL	coarse S - L	high	Glaciofluvial	Moderate	500 eq/ha/yr	18.15
449	213	213	Abp w	BWBSmw0	BWBSmw0 0 RZ	n	n	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	19.99
450	214	214a	6Mbpu-L 4Ov/Mp-L i-p	BWBSmw0	BWBSmw0 0 RZ	4	n	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	6.41
451	214	214b	6Mbpu-L 4Ov/Mp-L i-p	BWBSmw0	BWBSmw0 101 101	6	4	-	SMU-M2	M6_G	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	2.99
452	215	215	Abk-VR's w	BWBSmw0	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	21.76
453	216	216	8Apu 2Ck w	BWBSmw0	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	37.37
454	217	217	8Mbju 2Ahj w	BWBSwk1	BWBSwk1 101 101	4	4	n	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	16.08
455	218	218	6Mbja 4Mbu-L w-i	BWBSmw0	BWBSmw0 101 101	3	4	-	SMU-M1	M3_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	11.23

Appendix 11-B. Murray River Coal Project: Summary of Acid Sensitivity by Parent Material and Ecological Rating

Sequence	Terrain Poygon ID	TEM Polygon ID	Terrain Label	BEC_variant	TEM_Label	SMR1	SMR2	SMR3	SMUgroup	Soil Mapping Unit	Texture Group	Coarse Fragments	Parent Material	Acid Sensitivity	Critical Load	Area_ha
456	219	219	Mbja w	BWBSwk1	BWBSwk1 0 RZ	4	n	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	16.31
457	220	220	Mhj w	BWBSmw0	BWBSmw0 101 101	4	4	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	2.56
458	221	221a	6Ov/LGp-L 4Op p-i	BWBSwk1	-	6	-	-	SMU-F2	F6_G.p	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	4.79
459	221	221b	6Ov/LGp-L 4Op p-i	BWBSwk1	-	5	-	-	SMU-O2	O5_G.p	Organic	None	Organic	Moderate	500 eq/ha/yr	0.19
460	221	221c	6Ov/LGp-L 4Op p-i	BWBSwk1	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	0.21
461	221	221d	6Ov/LGp-L 4Op p-i	BWBSwk1	BWBSwk1 110 110	5	5	6	SMU-O2	O5_G.p	Organic	None	Organic	Moderate	500 eq/ha/yr	0.65
462	221	221e	6Ov/LGp-L 4Op p-i	BWBSwk1	-	5	-	-	SMU-O2	O5_G.p	Organic	None	Organic	Moderate	500 eq/ha/yr	0.27
463	221	221f	6Ov/LGp-L 4Op p-i	BWBSwk1	-	6	-	-	SMU-F2	F6_G.p	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	1.33
464	221	221g	6Ov/LGp-L 4Op p-i	BWBSwk1	-	6	-	-	SMU-F2	F6_G.p	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	1.83
465	221	221h	6Ov/LGp-L 4Op p-i	BWBSwk1	-	5	-	-	SMU-O2	O5_G.p	Organic	None	Organic	Moderate	500 eq/ha/yr	0.55
466	221	221i	6Ov/LGp-L 4Op p-i	BWBSwk1	-	5	-	-	SMU-O2	O5_G.p	Organic	None	Organic	Moderate	500 eq/ha/yr	0.98
467	221	221j	6Ov/LGp-L 4Op p-i	BWBSwk1	-	5	-	-	SMU-O2	O5_G.p	Organic	None	Organic	Moderate	500 eq/ha/yr	0.36
468	221	221k	6Ov/LGp-L 4Op p-i	BWBSwk1	-	6	-	-	SMU-F2	F6_G.p	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	0.32
469	222	222	zmdMbj w	ESSFmv2	-	2	-	-	SMU-M1	M2_CU.R	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	4.79
470	223	223a	sczFj w-i	BWBSmw0	BWBSmw0 0 RZ	6	n	-	SMU-F2	F6_G	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	2.19
471	223	223b	sczFj w-i	BWBSmw0	BWBSmw0 0 RZ	6	n	-	SMU-F2	F6_G	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	1.93
472	223	223c	sczFj w-i	BWBSmw0	BWBSmw0 0 RZ	6	n	-	SMU-F2	F6_G	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	0.74
473	223	223d	sczFj w-i	BWBSmw0	BWBSmw0 0 RZ	6	n	-	SMU-F2	F6_G	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	0.39
474	224	224	Mbuj-L i	BWBSwk1	-	5	-	-	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	1.77
475	225	225	9gkAh 1Mbu w	BWBSwk1	BWBSwk1 0 RY	n	n	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	22.32
476	226	226	8Fbjp 2zcMbu-E m-i	BWBSwk1	BWBSwk1 101 101	5	4	4	SMU-F2	F5_B.g	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	4.28
477	227	227	7Ob/Fp 3W v-p	BWBSwk1	BWBSwk1 0 PD	7	99	6	SMU-O2	F7_G.p	Organic	None	Organic	Moderate	500 eq/ha/yr	7.65
478	228	228	8FGv/Mbj 2Mbp-L w-i	BWBSmw0	BWBSmw0 0 RZ	3	n	-	SMU-FG2	FG M3_B	coarse S - L	high	Glaciofluvial	Moderate	500 eq/ha/yr	64.09
479	229	229	7Mbu 3Mbp-L w-i	BWBSmw0	BWBSmw0 101 101	3	4	-	SMU-M1	M3_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	10.70
480	230	230a	Ov/Mbup-L i	BWBSmw0	-	7	-	-	SMU-O1	O7_M	Organic	None	Organic	Moderate	500 eq/ha/yr	1.28
481	230	230b	Ov/Mbup-L i	BWBSmw0	-	6	-	-	SMU-O2	O M6_G.p	Organic	None	Organic	Moderate	500 eq/ha/yr	1.15
482	230	230c	Ov/Mbup-L i	BWBSmw0	-	6	-	-	SMU-O2	O M6_G.p	Organic	None	Organic	Moderate	500 eq/ha/yr	0.70
483	230	230d	Ov/Mbup-L i	BWBSmw0	-	7	-	-	SMU-O2	F7_G.p	Organic	None	Organic	Moderate	500 eq/ha/yr	0.38
484	231	231	7Fp 3RI i	BWBSmw0	BWBSmw0 0 RI	6	99	6	SMU-F2	F6_GLCU. R.	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	8.00
485	232	232	uOb/Mu p-v	BWBSmw0	-	7	-	-	SMU-O1	O7_M	Organic	None	Organic	Moderate	500 eq/ha/yr	1.78
486	233	233	sFGv/gszMuj-L m-w	BWBSmw0	BWBSmw0 101 101	3	4	-	SMU-FG1	FG3_BR.GL	coarse S - L	high	Glaciofluvial	High	250 eq/ha/yr	11.83
487	234	234a	8Mbuj 2Mbp-L i-w	ESSFmv2	ESSFmv2 0 RZ	4	n	-	SMU-M1	M4_B.lit	mod-fine CL-SiCl	moder	Till neutral	Moderate	500 eq/ha/yr	3.30
488	234	234b	8Mbuj 2Mbp-L i-w	ESSFmv2	ESSFmv2 04 FO	4	4	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	2.84
489	234	234c	8Mbuj 2Mbp-L i-w	ESSFmv2	ESSFmv2 05 FD	4	5	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	2.12
490	235	235a	gksFGj r	BWBSmw0	BWBSmw0 0 RZ	3	n	2	SMU-F1	F3_CU.R	coarse S-LS	high	Fluvial	High	250 eq/ha/yr	30.34
491	235	235b	gksFGj r	BWBSmw0	-	6	-	-	SMU-F2	F6_G.p	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	0.29
492	235	235c	gksFGj r	BWBSmw0	-	6	-	-	SMU-F2	F6_G.p	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	0.24
493	236	236a	Abup w	BWBSmw0	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	43.24
494	236	236b	Abup w	BWBSmw0	BWBSmw0 111 111	n	6	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	9.11
495	237	237	Mv/Rjkr w	BWBSwk1	BWBSwk1 103 103	2	5	n	SMU-M1	M2_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	27.36
496	238	238a	7FGv/Mbju 3Mbu w	BWBSmw0	BWBSmw0 101 101	3	4	-	SMU-FG1	FG3_BR.GL	coarse S - L	high	Glaciofluvial	High	250 eq/ha/yr	3.49
497	238	238b	7FGv/Mbju 3Mbu w	BWBSmw0	BWBSmw0 0 RZ	n	n	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	5.69
498	238	238c	7FGv/Mbju 3Mbu w	BWBSmw0	BWBSmw0 101 101	4	4	-	SMU-FG2	FG M4_B	coarse S - L	high	Glaciofluvial	Moderate	500 eq/ha/yr	4.31
499	238	238d	7FGv/Mbju 3Mbu w	BWBSmw0	-	4	-	-	SMU-FG2	FG M4_B	coarse S - L	high	Glaciofluvial	Moderate	500 eq/ha/yr	2.32
500	238	238e	7FGv/Mbju 3Mbu w	BWBSmw0	-	3	-	-	SMU-FG1	FG3_B	coarse S - L	high	Glaciofluvial	High	250 eq/ha/yr	3.76
501	238	238f	7FGv/Mbju 3Mbu w	BWBSmw0	-	4	-	-	SMU-FG2	FG M4_B	coarse S - L	high	Glaciofluvial	Moderate	500 eq/ha/yr	5.28
502	238	238g	7FGv/Mbju 3Mbu w	BWBSmw0	-	4	-	-	SMU-FG2	FG M4_B	coarse S - L	high	Glaciofluvial	Moderate	500 eq/ha/yr	0.73
503	238	238h	7FGv/Mbju 3Mbu w	BWBSmw0	-	7	-	-	SMU-O2	F7_G.p	Organic	None	Organic	Moderate	500 eq/ha/yr	0.43
504	238	238i	7FGv/Mbju 3Mbu w	BWBSmw0	-	4	-	-	SMU-FG2	FG M4_B	coarse S - L	high	Glaciofluvial	Moderate	500 eq/ha/yr	7.09
505	238	238j	7FGv/Mbju 3Mbu w	BWBSmw0	-	4	-	-	SMU-FG2	FG M4_B	coarse S - L	high	Glaciofluvial	Moderate	500 eq/ha/yr	3.51
506	238	238k	7FGv/Mbju 3Mbu w	BWBSmw0	BWBSmw0 101 101	4	4	-	SMU-FG2	FG M4_B	coarse S - L	high	Glaciofluvial	Moderate	500 eq/ha/yr	3.48
507	238	238l	7FGv/Mbju 3Mbu w	BWBSmw0	-	3	-	-	SMU-FG1	FG3_B	coarse S - L	high	Glaciofluvial	High	250 eq/ha/yr	2.15
508	238	238m	7FGv/Mbju 3Mbu w	BWBSmw0	BWBSmw0 0 RZ	4	n	-	SMU-FG2	FG M4_B	coarse S - L	high	Glaciofluvial	Moderate	500 eq/ha/yr	33.10
509	238	238n	7FGv/Mbju 3Mbu w	BWBSmw0	BWBSmw0 101\$ 101\$	4	4	-	SMU-FG2	FG M4_B	coarse S - L	high	Glaciofluvial	Moderate	500 eq/ha/yr	15.27
510	239	239	9PO 1Ar	BWBSwk1	BWBSwk1 0 ES	99	-	-	OpWater	OW99_n	Open Water	-	-	not rated	-	7.32
511	240	240	7Mbja-L 3Fp-L i	BWBSmw0	BWBSmw0 0 RI	6	99	-	SMU-M2	M6_G	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	9.73
512	241	241a	czsMwja m-w	BWBSwk1	BWBSwk1 101 101	5	4	-	SMU-M2	M5_B.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	24.91
513	241	241b	czsMwja m-w	BWBSwk1	BWBSwk1 104 104	4	4	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	28.21
514	241	241c	czsMwja m-w	BWBSmw0	BWBSmw0 103 103	4	3	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	24.63
515	241	241d	czsMwja m-w	BWBSwk1	BWBSwk1 101 101	4	4	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	3.40
516	241	241e	czsMwja m-w	BWBSwk1	-	4	-	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	2.06
517	241	241f	czsMwja m-w	BWBSwk1	BWBSwk1 104 104	4	4	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	14.46
518	242	242	6Ckw 4Mwaj w-r	ESSFmv2	-	4	-	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	0.70
519	243	243	Abpu w	BWBSmw0	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	15.49
520	244	244	Aa w-r	BWBSmw0	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	3.50

Appendix 11-B. Murray River Coal Project: Summary of Acid Sensitivity by Parent Material and Ecological Rating

Sequence	Terrain Poygon ID	TEM Polygon ID	Terrain Label	BEC_variant	TEM_Label	SMR1	SMR2	SMR3	SMUgroup	Soil Mapping Unit	Texture Group	Coarse Fragments	Parent Material	Acid Sensitivity	Critical Load	Area_ha
521	245	245a	zcMbp m	BWBSwk1	BWBSwk1 110 110	4	5	3	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	17.33
522	245	245b	zcMbp m	BWBSwk1	BWBSwk1 101 101	4	4	6	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	16.16
523	245	245c	zcMbp m	BWBSwk1	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	3.42
524	245	245d	zcMbp m	BWBSwk1	BWBSwk1 104 104	4	4	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	12.35
525	246	246a	zcMbp m-i	BWBSwk1	-	4	-	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	6.54
526	246	246b	zcMbp m-i	BWBSwk1	BWBSwk1 0 RZ	4	n	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	1.34
527	247	247	7Cwa 3Mwa w-m	ESSFmv2	-	4	-	-	SMU-M1	M4_B.lit	mod-fine CL-SiCl	moder	Till neutral	Moderate	500 eq/ha/yr	9.09
528	248	248	8Apu 2Aba w	BWBSmw0	BWBSmw0 0 RZ	n	n	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	54.87
529	249	249	7Rks 3Mwj r-w	BWBSwk1	BWBSwk1 0 RY	4	n	2	SMU-M1	M4_B.lit	mod-fine CL-SiCl	moder	Till neutral	Moderate	500 eq/ha/yr	13.94
530	250	250a	7zsgFGtj 3Ap w	ESSFmv2	ESSFmv2 0 RZ	?	n	4	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	7.19
531	250	250b	7zsgFGtj 3Ap w	ESSFmv2	ESSFmv2 06 FH	4	6	-	SMU-FG1	FG4_B	coarse S - L	high	Glaciofluvial	High	250 eq/ha/yr	4.98
532	250	250c	7zsgFGtj 3Ap w	ESSFmv2	ESSFmv2 04 FO	4	4	-	SMU-FG1	FG4_B	coarse S - L	high	Glaciofluvial	High	250 eq/ha/yr	2.81
533	251	251	Ov/Fp v	ESSFmv2	-	7	-	-	SMU-O2	F7_G.p	Organic	None	Organic	Moderate	500 eq/ha/yr	0.53
534	252	252a	Ovp v	BWBSwk1	-	6	-	-	SMU-F2	F6_G.p	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	0.69
535	252	252b	Ovp v	BWBSwk1	BWBSwk1 0 Wf03	7	7	-	SMU-O1	O7_M.t	Organic	None	Organic	Moderate	500 eq/ha/yr	0.55
536	253	253	6Ap 4Aa r	BWBSwk1	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	4.26
537	254	254	7Mbj 3Cwa-L w-i	BWBSwk1	BWBSwk1 101 101	5	4	-	SMU-M2	M5_B.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	103.28
538	255	255	Mw/Ru i-w	BWBSwk1	BWBSwk1 110 110	4	5	-	SMU-M1	M4_B.lit	mod-fine CL-SiCl	moder	Till neutral	Moderate	500 eq/ha/yr	3.77
539	256	256	Mw/Rh r-w	BWBSmw0	-	2	-	-	SMU-M1	M2_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	1.04
540	257	257	Ft w-r	BWBSmw0	-	4	-	-	SMU-F1	F4_B	coarse S-LS	high	Fluvial	High	250 eq/ha/yr	1.81
541	258	258	Mbj-L	BWBSmw0	BWBSmw0 110 110	6	4	-	SMU-M2	M6_G	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	0.83
542	259	259	Auh w	BWBSmw0	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	37.23
543	260	260	Op v	BWBSmw0	-	7	-	-	SMU-O1	O7_M	Organic	None	Organic	Moderate	500 eq/ha/yr	1.01
544	261	261	Ap	BWBSmw0	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	1.02
545	262	262	Ov/Fp v	ESSFmv2	-	7	-	-	SMU-O1	O7_M.t	Organic	None	Organic	Moderate	500 eq/ha/yr	1.06
546	263	263a	8Op 2Ov/Mp v-p	BWBSmw0	BWBSmw0 0 Wb06	6	7	-	SMU-O2	O1M6_G.p	Organic	None	Organic	Moderate	500 eq/ha/yr	2.49
547	263	263b	8Op 2Ov/Mp v-p	BWBSmw0	-	7	-	-	SMU-O1	O7_M	Organic	None	Organic	Moderate	500 eq/ha/yr	1.19
548	264	264	Cta r	ESSFmv2	-	2	-	-	SMU-C1	C2_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	1.12
549	265	265	Ap w	BWBSmw0	BWBSmw0 0 RZ	n	n	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	3.18
550	266	266	Ovx/Fp p	BWBSmw0	BWBSmw0 0 OW	7	99	-	SMU-O2	F7_G.p	Organic	None	Organic	Moderate	500 eq/ha/yr	4.43
551	267	267a	7Mw/Rt 3Mbj-L w-i	ESSFmv2	ESSFmv2 03 BT	5	4	-	SMU-M2	M5_B.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	11.16
552	267	267b	7Mw/Rt 3Mbj-L w-i	ESSFmv2	-	4	-	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	4.33
553	267	267c	7Mw/Rt 3Mbj-L w-i	ESSFmv2	ESSFmv2 01 FR	4	4	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	7.35
554	267	267d	7Mw/Rt 3Mbj-L w-i	ESSFmv2	ESSFmv2 04 FO	4	4	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	2.59
555	268	268a	Ov/Mbd p	ESSFmv2	-	7	-	-	SMU-O1	O7_M	Organic	None	Organic	Moderate	500 eq/ha/yr	0.86
556	268	268b	Ov/Mbd p	ESSFmv2	-	6	-	-	SMU-O2	O1M6_G.p	Organic	None	Organic	Moderate	500 eq/ha/yr	0.50
557	269	269	8Mwa 2Rk w	BWBSmw0	-	3	-	-	SMU-M1	M3_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	1.91
558	270	270	8Mbj 2Mv/Ra m-w	BWBSmw0	-	4	-	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	18.75
559	271	271	Cvka r	ESSFmv2	-	2	-	-	SMU-C1	C2_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	1.41
560	272	272	Ovp	BWBSwk1	-	6	-	-	SMU-F2	F6_G.p	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	1.48
561	273	273	Mbj w	BWBSwk1	-	3	-	-	SMU-M1	M3_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	2.00
562	274	274	PO	BWBSmw0	-	99	-	-	OpWater	OW99_n	Open Water	-	-	not rated	-	2.89
563	275	275	Op v	BWBSmw0	BWBSmw0 0 OW	6	99	-	SMU-F2	F6_G.p	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	1.60
564	276	276	Ap w	BWBSmw0	-	?	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	1.71
565	277	277	Mu p-i	BWBSmw0	-	4	-	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	1.73
566	278	278	PO	ESSFmv2	-	99	-	-	OpWater	OW99_n	Open Water	-	-	not rated	-	2.23
567	279	279a	7FGv/Mbu 3Mbp-L w-i	BWBSmw0	BWBSmw0 104\$ 104\$	4	5	-	SMU-FG2	FG1M4_B	coarse S - L	high	Glaciofluvial	Moderate	500 eq/ha/yr	5.18
568	279	279b	7FGv/Mbu 3Mbp-L w-i	BWBSmw0	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	1.40
569	279	279c	7FGv/Mbu 3Mbp-L w-i	BWBSmw0	-	4	-	-	SMU-FG2	FG1M4_B	coarse S - L	high	Glaciofluvial	Moderate	500 eq/ha/yr	3.55
570	280	280	8Cba 2Dvs w-r	BWBSmw0	-	4	-	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	1.87
571	281	281	8Mb 2Mb-V	BWBSmw0	-	4	-	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	9.11
572	282	282a	7Mwa 3Cwa w-i	ESSFmv2	ESSFmv2 05 FD	4	5	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	8.53
573	282	282b	7Mwa 3Cwa w-i	ESSFmv2	ESSFmv2 04 FO	4	4	-	SMU-M1	M4_B.lit	mod-fine CL-SiCl	moder	Till neutral	Moderate	500 eq/ha/yr	7.78
574	282	282c	7Mwa 3Cwa w-i	ESSFmv2	ESSFmv2 01 FR	4	4	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	4.44
575	283	283	Cfj m	BWBSmw0	-	4	-	-	SMU-F1	F4_CU.R	coarse S-LS	high	Fluvial	High	250 eq/ha/yr	2.04
576	284	284	PO	ESSFmv2	-	99	-	-	OpWater	OW99_n	Open Water	-	-	not rated	-	2.64
577	285	285	Ov/Md p-v	BWBSmw0	-	7	-	-	SMU-O1	O7_M	Organic	None	Organic	Moderate	500 eq/ha/yr	2.15
578	286	286	Mbu w	ESSFmv2	-	4	-	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	2.23
579	287	287	8Cvka 2Rs r	BWBSwk1	BWBSwk1 102 102	4	2	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	13.39
580	288	288	PO	BWBSmw0	-	99	-	-	OpWater	OW99_n	Open Water	-	-	not rated	-	2.81
581	289	289	Ffp i	BWBSmw0	-	4	-	-	SMU-F1	F4_CU.R	coarse S-LS	high	Fluvial	High	250 eq/ha/yr	2.32
582	290	290	Mbj-L	BWBSmw0	BWBSmw0 104 104	4	5	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	2.51
583	291	291	8Mw/Rutj 2Cvak w-i	BWBSwk1	BWBSwk1 101 101	4	4	3	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	16.49
584	292	292	Mba-L m-p	ESSFmv2	ESSFmv2 01 FR	4	4	4	SMU-M1	M4_B.lit	mod-fine CL-SiCl	moder	Till neutral	Moderate	500 eq/ha/yr	11.53
585	293	293	9Ap 1Op w-v	BWBSmw0	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	2.39

Appendix 11-B. Murray River Coal Project: Summary of Acid Sensitivity by Parent Material and Ecological Rating

Sequence	Terrain Poygon ID	TEM Polygon ID	Terrain Label	BEC_variant	TEM_Label	SMR1	SMR2	SMR3	SMUgroup	Soil Mapping Unit	Texture Group	Coarse Fragments	Parent Material	Acid Sensitivity	Critical Load	Area_ha
586	294	294	9Mba 1FAp mp	BWBSmw0	BWBSmw0 101 101	6	4	-	SMU-M2	M6_G	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	2.18
587	295	295a	Mbj-L p-i	ESSFmv2	ESSFmv2 05 FD	4	5	n	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	8.04
588	295	295b	Mbj-L p-i	ESSFmv2	ESSFmv2 04 FO	5	4	-	SMU-M2	M5_B.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	7.50
589	296	296	Cvaj w-r	SBSwk2	SBSwk2 0 MI	2	-	-	SMU-C1	C2_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	9.90
590	297	297	Mbka-V w	BWBSmw0	-	4	-	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	2.90
591	298	298	As r	BWBSmw0	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	3.63
592	299	299	Mb/Rtuj w	BWBSmw0	-	4	-	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	2.97
593	300	300	Ov/Md p	BWBSmw0	-	7	-	-	SMU-O1	O7_M	Organic	None	Organic	Moderate	500 eq/ha/yr	3.09
594	301	301	9PO 1A	BWBSmw0	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	3.14
595	302	302	Ap w	ESSFmv2	-	?	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	3.18
596	303	303	Mbp w	BWBSmw0	-	4	-	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	3.49
597	304	304	7Op 3W v	BWBSmw0	BWBSmw0 0 OW	7	99	-	SMU-O2	F7_G.p	Organic	None	Organic	Moderate	500 eq/ha/yr	4.49
598	305	305	6PO 4Op v	BWBSmw0	BWBSmw0 0 Wm01	99	7	-	OpWater	OW99_n	Open Water	-	-	not rated	-	4.90
599	306	306	Ap w	BWBSmw0	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	4.98
600	307	307	PO	BWBSmw0	-	99	-	-	OpWater	OW99_n	Open Water	-	-	not rated	-	3.74
601	308	308	7Mba 3Fp-L m-p	BWBSmw0	BWBSmw0 111 111	5	6	n	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	5.49
602	309	309	7Fp-L 3Mba i-m	ESSFmv2	ESSFmv2 06 FH	5	6	-	SMU-F2	F5_B.g	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	3.97
603	310	310	FGp	BWBSmw0	-	3	-	-	SMU-FG1	FG3_B	coarse S - L	high	Glaciofluvial	High	250 eq/ha/yr	4.07
604	311	311a	6Cvk 4Dv/Rs r	ESSFmv2	-	2	-	-	SMU-C1	C2_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	7.07
605	311	311b	6Cvk 4Dv/Rs r	ESSFmv2	ESSFmv2 01 FR	2	4	-	SMU-C1	C2_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	2.35
606	311	311c	6Cvk 4Dv/Rs r	ESSFmv2	ESSFmv2 04 FO	2	4	-	SMU-C1	C2_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	2.27
607	311	311d	6Cvk 4Dv/Rs r	ESSFmv2	-	4	-	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	7.54
608	311	311e	6Cvk 4Dv/Rs r	ESSFmv2	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	1.27
609	312	312	7Mbj 3Mbu-L w-i	ESSFmv2	ESSFmv2 03 BT	4	4	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	4.14
610	313	313	Ov/Mbd p	BWBSmw0	-	7	-	-	SMU-O1	O7_M	Organic	None	Organic	Moderate	500 eq/ha/yr	4.18
611	314	314a	FGv/Mbp w-m	BWBSmw0	-	4	-	-	SMU-FG2	FG1 M4_B	coarse S - L	high	Glaciofluvial	Moderate	500 eq/ha/yr	5.46
612	314	314b	FGv/Mbp w-m	BWBSmw0	-	4	-	-	SMU-FG2	FG1 M4_B	coarse S - L	high	Glaciofluvial	Moderate	500 eq/ha/yr	0.37
613	315	315a	FGv/Mbuj w	BWBSmw0	BWBSmw0 101\$ 101\$	4	4	-	SMU-FG2	FG1 M4_B	coarse S - L	high	Glaciofluvial	Moderate	500 eq/ha/yr	17.31
614	315	315b	FGv/Mbuj w	BWBSmw0	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	2.58
615	315	315c	FGv/Mbuj w	BWBSmw0	-	4	-	-	SMU-FG2	FG1 M4_B	coarse S - L	high	Glaciofluvial	Moderate	500 eq/ha/yr	2.74
616	316	316	Ar w	BWBSmw0	BWBSmw0 0 TZ	n	n	99	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	6.91
617	317	317	7Mwj 3Cva w-r	ESSFmv2	ESSFmv2 03 BT	4	4	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	5.01
618	318	318	Mbj m-i	ESSFmv2	ESSFmv2 05 FD	4	5	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	4.67
619	319	319	Mbp i-m	BWBSmw0	-	5	-	-	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	5.80
620	320	320	5Op 5Ov/Mp vp	BWBSmw0	-	7	-	-	SMU-O1	O7_M	Organic	None	Organic	Moderate	500 eq/ha/yr	5.73
621	321	321a	FGp w	SBSwk2	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	2.61
622	321	321b	FGp w	SBSwk2	-	2	-	-	SMU-FG1	FG2_B	coarse S - L	high	Glaciofluvial	High	250 eq/ha/yr	2.04
623	321	321c	FGp w	SBSwk2	-	2	-	-	SMU-FG1	FG2_B	coarse S - L	high	Glaciofluvial	High	250 eq/ha/yr	1.17
624	322	322a	7Fp 3Mba p-m	ESSFmv2	ESSFmv2 05 FD	4	5	6	SMU-F1	F4_B	coarse S-LS	high	Fluvial	High	250 eq/ha/yr	3.27
625	322	322b	7Fp 3Mba p-m	ESSFmv2	-	6	-	-	SMU-F2	F6_G.p	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	2.69
626	323	323a	Mbu w-i	BWBSmw0	BWBSmw0 101 101	4	4	3	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	16.96
627	323	323b	Mbu w-i	BWBSmw0	BWBSmw0 103 103	4	3	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	6.99
628	323	323c	Mbu w-i	BWBSmw0	-	5	-	-	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	2.22
629	324	324	Cbw r-w	BWBSmw0	BWBSmw0 102 102	3	2	-	SMU-C1	C3_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	8.20
630	325	325	FGp w-i	BWBSmw0	-	4	-	-	SMU-FG1	FG4_B	coarse S - L	high	Glaciofluvial	High	250 eq/ha/yr	6.69
631	326	326	Ov/Mp v	BWBSmw0	-	7	-	-	SMU-O1	O7_M	Organic	None	Organic	Moderate	500 eq/ha/yr	6.71
632	327	327a	7Cvk-LV 2Rs 1FbA i-m	BWBSwk1	BWBSwk1 102 102	4	2	6	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	4.98
633	327	327b	7Cvk-LV 2Rs 1FbA i-m	ESSFmv2	ESSFmv2 06 FH	5	6	-	SMU-C2	C5_B.g	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	1.97
634	328	328	5PO 5zsFAp-B i	BWBSmw0	BWBSmw0 0 FI05	99	6	-	OpWater	OW99_n	Open Water	-	-	not rated	-	16.34
635	329	329a	8Ov/Md 2Mu v-i	BWBSmw0	-	7	-	-	SMU-O1	O7_M	Organic	None	Organic	Moderate	500 eq/ha/yr	4.87
636	329	329b	8Ov/Md 2Mu v-i	BWBSmw0	BWBSmw0 111 111	6	6	-	SMU-O2	O1 M6_G.p	Organic	None	Organic	Moderate	500 eq/ha/yr	2.16
637	330	330	Mbjp w	BWBSmw0	BWBSmw0 104 104	4	5	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	7.05
638	331	331	Mbj w-r	ESSFmv2	ESSFmv2 02 FL	4	2	n	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	7.11
639	332	332	Ff-L m	BWBSmw0	BWBSmw0 101 101	5	4	-	SMU-F2	F5_G	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	7.22
640	333	333	Mv/Rak r	SBSwk2	SBSwk2 01 SO	3	4	-	SMU-M1	M3_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	5.73
641	334	334	FGt w-i	BWBSmw0	BWBSmw0 101 101	3	4	-	SMU-FG1	FG3_BR.GL	coarse S - L	high	Glaciofluvial	High	250 eq/ha/yr	7.15
642	335	335a	Mbja-L w-m	BWBSwk1	BWBSwk1 101 101	5	4	-	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	5.11
643	335	335b	Mbja-L w-m	BWBSwk1	BWBSwk1 0 RZ	5	n	-	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	2.26
644	336	336	Mbu w	BWBSmw0	BWBSmw0 104 104	4	5	n	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	7.75
645	337	337	Mbu w-m	BWBSmw0	BWBSmw0 0 RZ	4	n	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	7.87
646	338	338	Mbu w	BWBSmw0	BWBSmw0 0 RZ	4	n	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	5.79
647	339	339a	6Cba 4Mbj w	ESSFmv2	-	4	-	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	4.40
648	339	339b	6Cba 4Mbj w	ESSFmv2	-	4	-	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	0.35
649	339	339c	6Cba 4Mbj w	ESSFmv2	ESSFmv2 03 BT	4	4	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	3.57
650	340	340	Cf w-i	BWBSmw0	BWBSmw0 0 RZ	3	n	-	SMU-C1	C3_B.lit	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	8.33

Appendix 11-B. Murray River Coal Project: Summary of Acid Sensitivity by Parent Material and Ecological Rating

Sequence	Terrain Poygon ID	TEM Polygon ID	Terrain Label	BEC_variant	TEM_Label	SMR1	SMR2	SMR3	SMUgroup	Soil Mapping Unit	Texture Group	Coarse Fragments	Parent Material	Acid Sensitivity	Critical Load	Area_ha
651	341	341	Op	BWBSmw0	-	7	-	-	SMU-O1	O7_M	Organic	None	Organic	Moderate	500 eq/ha/yr	8.37
652	342	342	8Mbj 2Mw/Rhu w-m	ESSFmv2	ESSFmv2 04 FO	4	4	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	11.98
653	343	343	Fpf-L i-m	BWBSmw0	BWBSmw0 101 101	5	4	-	SMU-F2	F5_B.g	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	6.33
654	344	344a	Cw/Rbuj w-i	ESSFmv2	ESSFmv2 02 FL	4	2	n	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	15.18
655	344	344b	Cw/Rbuj w-i	ESSFmv2	-	4	-	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	2.74
656	345	345	9Mbu 1Dr w-i	ESSFmv2	ESSFmv2 03 BT	4	4	4	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	10.76
657	346	346	6Mbu-L 4Fp-L i-p	BWBSmw0	BWBSmw0 110 110	4	4	n	SMU-M1	M4_B.lit	mod-fine CL-SiCl	moder	Till neutral	Moderate	500 eq/ha/yr	9.00
658	347	347	8Ffp 2Mbj m-i	BWBSmw0	BWBSmw0 104 104	5	5	-	SMU-F2	F5_B.g	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	9.13
659	348	348	Mbw/Ruj w-m	BWBSwk1	-	4	-	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	11.15
660	349	349a	9Cwak 1Rs r	BWBSwk1	BWBSwk1 110 110	5	5	-	SMU-C2	C5_B.g	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	11.36
661	349	349b	9Cwak 1Rs r	BWBSwk1	BWBSwk1 110 110	4	5	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	3.29
662	349	349c	9Cwak 1Rs r	BWBSwk1	BWBSwk1 110 110	4	5	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	4.02
663	350	350	8Mbj 2Fap m-p	BWBSmw0	BWBSmw0 101 101	4	4	-	SMU-M1	M4_B.lit	mod-fine CL-SiCl	moder	Till neutral	Moderate	500 eq/ha/yr	9.50
664	351	351	7Op 3Ov/M vp	BWBSmw0	-	7	-	-	SMU-O1	O7_M	Organic	None	Organic	Moderate	500 eq/ha/yr	9.72
665	352	352a	6Cwak 4Mwj r-w	BWBSmw0	-	4	-	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	6.09
666	352	352b	6Cwak 4Mwj r-w	BWBSmw0	-	3	-	-	SMU-C1	C3_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	1.08
667	352	352c	6Cwak 4Mwj r-w	BWBSmw0	-	3	-	-	SMU-C1	C3_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	1.47
668	352	352d	6Cwak 4Mwj r-w	BWBSmw0	-	3	-	-	SMU-C1	C3_B.lit	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	0.39
669	352	352e	6Cwak 4Mwj r-w	BWBSmw0	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	0.52
670	353	353	Mw/Rhj w	BWBSmw0	BWBSmw0 103 103	3	3	n	SMU-FG2	FG M3_BR.GL	coarse S - L	high	Glaciofluvial	Moderate	500 eq/ha/yr	8.57
671	354	354	7Cvak 3Mbj r-w	ESSFmv2	ESSFmv2 02 FL	4	2	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	10.04
672	355	355a	Mbu w	BWBSmw0	-	4	-	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	5.92
673	355	355b	Mbu w	BWBSmw0	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	0.76
674	355	355c	Mbu w	BWBSmw0	-	3	-	-	SMU-M1	M3_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	5.12
675	356	356	FGak wr	BWBSmw0	BWBSmw0 101 101	3	4	-	SMU-FG1	FG3_B	coarse S - L	high	Glaciofluvial	High	250 eq/ha/yr	10.79
676	357	357a	Mbu w-i	ESSFmv2	-	4	-	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	12.74
677	357	357b	Mbu w-i	BWBSwk1	BWBSwk1 110 110	4	5	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	4.50
678	358	358a	Mw/Ru w-i	ESSFmv2	ESSFmv2 01 FR	5	4	-	SMU-M2	M5_B.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	7.95
679	358	358b	Mw/Ru w-i	ESSFmv2	-	2	-	-	SMU-M1	M2_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	3.13
680	359	359a	Op v-p	BWBSmw0	-	7	-	-	SMU-O2	F7_G.p	Organic	None	Organic	Moderate	500 eq/ha/yr	7.04
681	359	359b	Op v-p	BWBSmw0	-	6	-	-	SMU-F2	F6_G.p	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	1.14
682	359	359c	Op v-p	BWBSmw0	-	6	-	-	SMU-F2	F6_G.p	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	3.00
683	360	360	8Mhu 2Ox/Mbd-L w-p	BWBSwk1	-	5	-	-	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	9.84
684	361	361	Oxv/Mp v-p	BWBSmw0	BWBSmw0 0 Wb06	6	7	-	SMU-O2	O M6_G.p	Organic	None	Organic	Moderate	500 eq/ha/yr	11.83
685	362	362	9Mbj 1Mbj-L m-i	ESSFmv2	ESSFmv2 01 FR	4	4	n	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	9.36
686	363	363	FGv/Mu w-i	BWBSmw0	BWBSmw0 104\$ 104\$	4	5	-	SMU-FG2	FG M4_B	coarse S - L	high	Glaciofluvial	Moderate	500 eq/ha/yr	12.05
687	364	364a	7Mbu-L 3Fp-L i-p	BWBSmw0	BWBSmw0 104 104	6	5	n	SMU-M2	M6_G	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	10.99
688	364	364b	7Mbu-L 3Fp-L i-p	BWBSmw0	-	4	-	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	1.33
689	365	365	Mba w-r	BWBSwk1	BWBSwk1 102 102	4	2	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	12.32
690	366	366	8Mw/Rrj 2Mbj-L w-i	ESSFmv2	ESSFmv2 05 FD	4	5	6	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	14.89
691	367	367a	Ft w-r	BWBSmw0	BWBSmw0 102 102	3	2	-	SMU-F1	F3_CU.R	coarse S-LS	high	Fluvial	High	250 eq/ha/yr	13.48
692	367	367b	Ft w-r	BWBSmw0	-	4	-	-	SMU-F1	F4_B	coarse S-LS	high	Fluvial	High	250 eq/ha/yr	2.61
693	368	368a	8Mbj 2Cva w	BWBSmw0	BWBSmw0 103 103	4	3	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	8.75
694	368	368b	8Mbj 2Cva w	BWBSmw0	-	4	-	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	3.66
695	369	369	8Cbv-Rja 2Mva	BWBSmw0	-	3	-	-	SMU-C1	C3_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	12.63
696	370	370	7Mw/Rta 3Mwj-L w-p	BWBSwk1	BWBSwk1 111 111	4	6	5	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	26.49
697	371	371a	8Ovb/Mp 2Mp vp	BWBSmw0	BWBSmw0 0 Wb06	6	7	-	SMU-O2	O M6_G.p	Organic	None	Organic	Moderate	500 eq/ha/yr	7.39
698	371	371b	8Ovb/Mp 2Mp vp	BWBSmw0	-	7	-	-	SMU-O1	O7_M	Organic	None	Organic	Moderate	500 eq/ha/yr	5.35
699	372	372a	Mbu m-p	SBSwk2	SBSwk2 01 SO	5	4	-	SMU-M2	M5_B.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	9.77
700	372	372b	Mbu m-p	SBSwk2	SBSwk2 06 SH	5	6	-	SMU-M2	M5_B.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	3.81
701	373	373	7Cw/Ru 3Rr r-w	ESSFmv2	ESSFmv2 02 FL	2	2	2	SMU-C1	C2_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	23.27
702	374	374a	PO	BWBSmw0	-	99	-	-	OpWater	OW99_n	Open Water	-	-	not rated	-	0.91
703	374	374b	PO	BWBSmw0	-	99	-	-	OpWater	OW99_n	Open Water	-	-	not rated	-	45.91
704	375	375a	Ovb/Fp-L i	BWBSmw0	BWBSmw0 111 111	6	6	-	SMU-O2	O M6_G.p	Organic	None	Organic	Moderate	500 eq/ha/yr	7.97
705	375	375b	Ovb/Fp-L i	BWBSmw0	BWBSmw0 0 OW	6	99	-	SMU-F2	F6_G.p	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	7.31
706	376	376	8Ffu 2Fv/Mbu m-i	BWBSmw0	BWBSmw0 112 112	6	6	-	SMU-F2	F6_G	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	14.89
707	377	377	6Mbu-L 4Mbu i-m	BWBSwk1	BWBSwk1 0 RZ	5	n	5	SMU-M2	M5_B.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	12.31
708	378	378a	6PO 4Op v	BWBSmw0	-	99	-	-	OpWater	OW99_n	Open Water	-	-	not rated	-	8.11
709	378	378b	6PO 4Op v	BWBSmw0	-	7	-	-	SMU-O1	O7_M	Organic	None	Organic	Moderate	500 eq/ha/yr	2.92
710	378	378c	6PO 4Op v	BWBSmw0	BWBSmw0 0 OW	7	99	-	SMU-O2	F7_G.p	Organic	None	Organic	Moderate	500 eq/ha/yr	4.07
711	379	379a	6Ch-FL 4Mj i-m	BWBSmw0	BWBSmw0 101 101	4	4	-	SMU-C1	C4_R	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	13.71
712	379	379b	6Ch-FL 4Mj i-m	BWBSmw0	BWBSmw0 102 102	4	2	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	2.46
713	380	380	5Cvk 5Cba r-w	ESSFmv2	ESSFmv2 03 BT	2	4	n	SMU-C1	C2_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	16.11
714	381	381a	8Mu 2Md m-p	BWBSmw0	-	6	-	-	SMU-M2	M6_G	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	7.37
715	381	381b	8Mu 2Md m-p	BWBSmw0	-	6	-	-	SMU-M2	M6_G	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	1.29

Appendix 11-B. Murray River Coal Project: Summary of Acid Sensitivity by Parent Material and Ecological Rating

Sequence	Terrain Poygon ID	TEM Polygon ID	Terrain Label	BEC_variant	TEM_Label	SMR1	SMR2	SMR3	SMUgroup	Soil Mapping Unit	Texture Group	Coarse Fragments	Parent Material	Acid Sensitivity	Critical Load	Area_ha
716	381	381c	8Mu 2Md m-p	BWBSmw0	-	6	-	-	SMU-M2	M6_G	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	0.44
717	381	381d	8Mu 2Md m-p	BWBSmw0	-	4	-	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	2.79
718	381	381e	8Mu 2Md m-p	BWBSmw0	BWBSmw0 111 111	6	6	-	SMU-M2	M6_G	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	4.72
719	382	382	7Cw/Ra 3Mwa w-r	BWBSwk1	BWBSwk1 101\$ 101\$	4	4	4	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	19.37
720	383	383	FGx/Mbt m	BWBSmw0	BWBSmw0 104 104	4	5	-	SMU-FG2	FG M4_B	coarse S - L	high	Glaciofluvial	Moderate	500 eq/ha/yr	16.19
721	384	384a	7Cvka 3Rs r-w	SBSwk2	SBSwk2 02 LH	2	2	3	SMU-C1	C2_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	12.37
722	384	384b	7Cvka 3Rs r-w	SBSwk2	-	3	-	-	SMU-C1	C3_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	6.64
723	385	385a	Cak w	BWBSmw0	BWBSmw0 101\$ 101\$	4	4	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	10.20
724	385	385b	Cak w	BWBSmw0	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	0.79
725	385	385c	Cak w	BWBSmw0	-	4	-	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	7.22
726	386	386	7Mu 3Md m-p	BWBSmw0	BWBSmw0 104 104	4	5	n	SMU-FG1	FG4_B	coarse S - L	high	Glaciofluvial	High	250 eq/ha/yr	17.68
727	387	387a	Mbju m-p	ESSFmv2	ESSFmv2 04 FO	4	4	5	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	10.23
728	387	387b	Mbju m-p	ESSFmv2	ESSFmv2 01 FR	4	4	5	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	9.53
729	388	388	6Mbu 4Mbp-L m-i	BWBSwk1	BWBSwk1 110 110	4	5	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	15.57
730	389	389	6Mbj 4Cwa w-r	BWBSwk1	BWBSwk1 102 102	4	2	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	28.21
731	390	390	Ap	BWBSmw0	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	18.80
732	391	391a	8Mu 2Ov/Mp w-p	BWBSmw0	BWBSmw0 0 RZ	4	n	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	14.78
733	391	391b	8Mu 2Ov/Mp w-p	BWBSmw0	BWBSmw0 111 111	4	6	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	3.04
734	391	391c	8Mu 2Ov/Mp w-p	BWBSmw0	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	1.06
735	391	391d	8Mu 2Ov/Mp w-p	BWBSmw0	-	5	-	-	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	1.12
736	392	392	Ffu-L i-m	BWBSmw0	BWBSmw0 101 101	4	4	-	SMU-F1	F4_CU.R	coarse S-LS	high	Fluvial	High	250 eq/ha/yr	19.66
737	393	393	Mbj w	ESSFmv2	ESSFmv2 05 FD	4	5	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	19.83
738	394	394	8Ov/Mbp 2Fv/Mp p-m	BWBSmw0	BWBSmw0 111 111	4	6	4	SMU-M1	M4_B.lit	mod-fine CL-SiCl	moder	Till neutral	Moderate	500 eq/ha/yr	16.82
739	395	395a	9Mw/Rutj 1Cva w-m	BWBSwk1	BWBSwk1 103\$ 103\$	4	5	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	12.96
740	395	395b	9Mw/Rutj 1Cva w-m	ESSFmv2	ESSFmv2 03 BT	4	4	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	7.62
741	396	396	Mw/Rta w-i	ESSFmv2	ESSFmv2 03 BT	4	4	4	SMU-M1	M4_B.lit	mod-fine CL-SiCl	moder	Till neutral	Moderate	500 eq/ha/yr	20.58
742	397	397	Mbj Mw/Rtja w-m	BWBSwk1	BWBSwk1 110 110	4	5	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	32.71
743	398	398	7Cvka 3Rs r-w	BWBSwk1	BWBSwk1 101 101	3	4	-	SMU-C1	C3_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	14.67
744	399	399a	Mb/Rju w-i	ESSFmv2	ESSFmv2 03 BT	4	4	4	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	18.75
745	399	399b	Mb/Rju w-i	ESSFmv2	-	4	-	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	3.08
746	400	400	5Ov/Mp 5Mbj v-m	BWBSmw0	BWBSmw0 0 Ws07	4	6	-	SMU-M1	M4_B.lit	mod-fine CL-SiCl	moder	Till neutral	Moderate	500 eq/ha/yr	22.08
747	401	401	Op v	BWBSmw0	-	7	-	-	SMU-O1	O7_M	Organic	None	Organic	Moderate	500 eq/ha/yr	16.07
748	402	402a	Ahu r	BWBSmw0	BWBSmw0 101 101	n	4	4	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	4.88
749	402	402b	Ahu r	BWBSmw0	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	5.01
750	402	402c	Ahu r	BWBSmw0	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	5.62
751	402	402d	Ahu r	BWBSmw0	BWBSmw0 0 RZ	n	n	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	4.47
752	403	403	5Ff 5Gt-L m-1	BWBSmw0	BWBSmw0 101 101	4	4	-	SMU-F1	F4_CU.R	coarse S-LS	high	Fluvial	High	250 eq/ha/yr	23.69
753	404	404a	8Mwa-k 2Cvk w-r	ESSFmv2	ESSFmv2 02 FL	4	2	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	7.46
754	404	404b	8Mwa-k 2Cvk w-r	ESSFmv2	-	4	-	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	4.68
755	404	404c	8Mwa-k 2Cvk w-r	ESSFmv2	-	4	-	-	SMU-M1	M4_B.lit	mod-fine CL-SiCl	moder	Till neutral	Moderate	500 eq/ha/yr	1.70
756	404	404d	8Mwa-k 2Cvk w-r	ESSFmv2	ESSFmv2 02 FL	4	2	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	2.02
757	405	405	Mba w-m	BWBSwk1	-	4	-	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	24.06
758	406	406a	9Mw/Rra 1Ra w-r	ESSFmv2	ESSFmv2 02 FL	4	2	2	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	9.62
759	406	406b	9Mw/Rra 1Ra w-r	ESSFmv2	-	4	-	-	SMU-M1	M4_B.lit	mod-fine CL-SiCl	moder	Till neutral	Moderate	500 eq/ha/yr	1.84
760	406	406c	9Mw/Rra 1Ra w-r	ESSFmv2	ESSFmv2 04 FO	4	4	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	7.88
761	407	407a	8Mbu 2Ov/Mbp m-p	BWBSmw0	-	4	-	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	17.18
762	407	407b	8Mbu 2Ov/Mbp m-p	BWBSmw0	-	3	-	-	SMU-FG2	FG M3_B	coarse S - L	high	Glaciofluvial	Moderate	500 eq/ha/yr	3.26
763	407	407c	8Mbu 2Ov/Mbp m-p	BWBSmw0	BWBSmw0 104 104	4	5	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	4.47
764	408	408	9Mp 1Fp p-v	BWBSmw0	BWBSmw0 110 110	n	4	n	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	22.15
765	409	409a	Mbj w-m	SBSwk2	SBSwk2 01 SO	5	4	-	SMU-M2	M5_B.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	25.99
766	409	409b	Mbj w-m	SBSwk2	-	3	-	-	SMU-M1	M3_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	2.32
767	410	410a	Mbuj w-i	ESSFmv2	ESSFmv2 01 FR	4	4	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	18.17
768	410	410b	Mbuj w-i	ESSFmv2	ESSFmv2 04 FO	4	4	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	8.38
769	411	411	Mbuj w-m	ESSFmv2	ESSFmv2 01 FR	4	4	5	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	15.87
770	412	412a	FGv/Mb/Rtj w-r	BWBSmw0	-	3	-	-	SMU-FG2	FG M3_B	coarse S - L	high	Glaciofluvial	Moderate	500 eq/ha/yr	11.96
771	412	412b	FGv/Mb/Rtj w-r	BWBSmw0	BWBSmw0 103 103	3	3	-	SMU-FG2	FG M3_B	coarse S - L	high	Glaciofluvial	Moderate	500 eq/ha/yr	9.82
772	412	412c	FGv/Mb/Rtj w-r	BWBSmw0	-	4	-	-	SMU-FG2	FG M4_B	coarse S - L	high	Glaciofluvial	Moderate	500 eq/ha/yr	3.66
773	412	412d	FGv/Mb/Rtj w-r	BWBSmw0	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	2.02
774	413	413a	8Mbj w-1 2Mva w	BWBSwk1	-	4	-	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	14.93
775	413	413b	8Mbj w-1 2Mva w	BWBSwk1	BWBSwk1 110 110	4	5	3	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	11.48
776	414	414	8Mbtu 2Mbk-V w	BWBSmw0	BWBSmw0 103 103	3	3	-	SMU-M1	M3_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	35.56
777	415	415a	8Mbj 2Mb-LV w-p	ESSFmv2	ESSFmv2 05 FD	4	5	6	SMU-M1	M4_B.lit	mod-fine CL-SiCl	moder	Till neutral	Moderate	500 eq/ha/yr	9.94
778	415	415b	8Mbj 2Mb-LV w-p	ESSFmv2	ESSFmv2 06 FH	4	6	6	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	9.99
779	415	415c	8Mbj 2Mb-LV w-p	ESSFmv2	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	6.15
780	416	416a	Mbuj i-m	BWBSwk1	BWBSwk1 110 110	4	5	6	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	16.49

Appendix 11-B. Murray River Coal Project: Summary of Acid Sensitivity by Parent Material and Ecological Rating

Sequence	Terrain Poygon ID	TEM Polygon ID	Terrain Label	BEC_variant	TEM_Label	SMR1	SMR2	SMR3	SMUgroup	Soil Mapping Unit	Texture Group	Coarse Fragments	Parent Material	Acid Sensitivity	Critical Load	Area_ha
781	416	416b	Mbuj i-m	BWBSwk1	BWBSwk1 103 103	5	5	-	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	2.42
782	416	416c	Mbuj i-m	BWBSwk1	BWBSwk1 110\$.2 110\$.2	4	5	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	6.33
783	416	416d	Mbuj i-m	BWBSwk1	BWBSwk1 103 103	5	5	-	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	4.24
784	416	416e	Mbuj i-m	BWBSwk1	-	6	-	-	SMU-F2	F6_G.p	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	0.15
785	417	417	FGv/Mbj w	BWBSmw0	BWBSmw0 103 103	4	3	4	SMU-FG2	FG M4_B	coarse S - L	high	Glaciofluvial	Moderate	500 eq/ha/yr	27.18
786	418	418a	7Mwa 3Fvj-L w-i	ESSFmv2	ESSFmv2 06 FH	4	6	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	8.90
787	418	418b	7Mwa 3Fvj-L w-i	BWBSmw0	BWBSmw0 110 110	4	4	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	3.47
788	418	418c	7Mwa 3Fvj-L w-i	BWBSmw0	BWBSmw0 110 110	4	4	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	12.02
789	418	418d	7Mwa 3Fvj-L w-i	BWBSwk1	BWBSwk1 110 110	3	5	-	SMU-M1	M3_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	4.13
790	419	419a	Mu wi	BWBSmw0	BWBSmw0 101\$ 101\$	5	4	-	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	24.14
791	419	419b	Mu wi	BWBSmw0	-	5	-	-	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	4.34
792	420	420a	Cwka R"fv	ESSFmv2	ESSFmv2 01 FR	2	4	4	SMU-C1	C2_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	9.15
793	420	420b	Cwka R"fv	ESSFmv2	ESSFmv2 04 FO	4	4	6	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	11.51
794	420	420c	Cwka R"fv	ESSFmv2	-	4	-	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	2.89
795	420	420d	Cwka R"fv	BWBSwk1	BWBSwk1 103\$ 103\$	3	5	-	SMU-C1	C3_B.lit	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	3.99
796	420	420e	Cwka R"fv	BWBSwk1	-	4	-	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	3.93
797	420	420f	Cwka R"fv	BWBSwk1	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	0.89
798	421	421a	5Mw/Rta 5Mbj w-i	BWBSwk1	BWBSwk1 101 101	4	4	5	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	22.60
799	421	421b	5Mw/Rta 5Mbj w-i	BWBSwk1	-	6	-	-	SMU-F2	F6_G.p	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	0.64
800	422	422a	Mbj m-i	BWBSmw0	BWBSmw0 104 104	4	5	n	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	8.34
801	422	422b	Mbj m-i	BWBSmw0	-	5	-	-	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	3.74
802	422	422c	Mbj m-i	BWBSmw0	BWBSmw0 101 101	5	4	-	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	6.59
803	422	422d	Mbj m-i	BWBSmw0	BWBSmw0 104 104	4	5	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	10.28
804	422	422e	Mbj m-i	BWBSmw0	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	2.68
805	423	423	8Mbj 2Mbu w-i	ESSFmv2	ESSFmv2 04 FO	4	4	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	32.00
806	424	424	Mbu w-m	BWBSmw0	BWBSmw0 101 101	5	4	3	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	24.23
807	425	425a	8PO 2FAp I	BWBSmw0	-	6	-	-	SMU-F2	F6_G.r	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	2.25
808	425	425b	8PO 2FAp I	BWBSmw0	-	99	-	-	OpWater	OW99_n	Open Water	-	-	not rated	-	31.06
809	426	426a	Fp w-i	BWBSmw0	-	6	-	-	SMU-F2	F6_G	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	6.61
810	426	426b	Fp w-i	BWBSmw0	BWBSmw0 111 111	6	6	-	SMU-F2	F6_G	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	7.26
811	426	426c	Fp w-i	BWBSmw0	BWBSmw0 112 112	6	6	-	SMU-F2	F6_G	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	3.24
812	426	426d	Fp w-i	BWBSmw0	BWBSmw0 111 111	6	6	n	SMU-F2	F6_G	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	7.13
813	426	426e	Fp w-i	BWBSmw0	BWBSmw0 0 RZ	n	n	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	5.25
814	426	426f	Fp w-i	BWBSmw0	-	6	-	-	SMU-F2	F6_G	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	2.87
815	427	427	7Mwj-Rt 3Mu w-m	BWBSmw0	BWBSmw0 110 110	4	4	4	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	34.62
816	428	428a	7Mu 3Mbp w-p	BWBSmw0	BWBSmw0 110 110	4	4	n	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	20.05
817	428	428b	7Mu 3Mbp w-p	BWBSmw0	-	4	-	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	7.61
818	428	428c	7Mu 3Mbp w-p	BWBSmw0	BWBSmw0 0 RZ	4	n	6	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	7.02
819	429	429a	Mbj w	BWBSmw0	BWBSmw0 104 104	4	5	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	18.52
820	429	429b	Mbj w	BWBSmw0	-	3	-	-	SMU-M1	M3_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	1.93
821	429	429c	Mbj w	BWBSmw0	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	1.17
822	429	429d	Mbj w	BWBSmw0	-	?	-	-	SMU-M2	M5_B.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	3.88
823	429	429e	Mbj w	BWBSmw0	-	4	-	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	5.20
824	430	430a	Cw/Rrk r	ESSFmv2	ESSFmv2 01 FR	4	4	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	8.82
825	430	430b	Cw/Rrk r	ESSFmv2	-	4	-	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	7.69
826	431	431a	Fp m-w	BWBSmw0	BWBSmw0 104 104	4	5	-	SMU-F1	F4_B	coarse S-LS	high	Fluvial	High	250 eq/ha/yr	18.50
827	431	431b	Fp m-w	BWBSmw0	BWBSmw0 112 112	4	6	-	SMU-F1	F4_B	coarse S-LS	high	Fluvial	High	250 eq/ha/yr	3.37
828	431	431c	Fp m-w	BWBSmw0	-	6	-	-	SMU-F2	F6_GLCU. R.	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	0.89
829	431	431d	Fp m-w	BWBSmw0	-	4	-	-	SMU-F1	F4_B	coarse S-LS	high	Fluvial	High	250 eq/ha/yr	4.64
830	431	431e	Fp m-w	BWBSmw0	-	3	-	-	SMU-R	R3_B.lit	very coarse	very high	Neutral (shale)	High	250 eq/ha/yr	5.12
831	431	431f	Fp m-w	BWBSmw0	-	6	-	-	SMU-F2	F6_GLCU. R.	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	4.49
832	432	432	8Mw/Rtj 2Mvak i-w	BWBSwk1	BWBSwk1 101\$ 101\$	4	4	-	SMU-M1	M4_B.lit	mod-fine CL-SiCl	moder	Till neutral	Moderate	500 eq/ha/yr	36.92
833	433	433	9Mbj 1Mvja wr	BWBSmw0	BWBSmw0 104 104	4	5	n	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	40.78
834	434	434a	9Fp 1Au w-i	BWBSmw0	BWBSmw0 101 101	3	4	-	SMU-F1	F3_CU.R	coarse S-LS	high	Fluvial	High	250 eq/ha/yr	12.60
835	434	434b	9Fp 1Au w-i	BWBSmw0	BWBSmw0 112 112	4	6	n	SMU-F1	F4_B	coarse S-LS	high	Fluvial	High	250 eq/ha/yr	7.65
836	434	434c	9Fp 1Au w-i	SBSwk2	SBSwk2 0 Fm02	5	5	-	SMU-F2	F5_GLCU. R.	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	5.20
837	434	434d	9Fp 1Au w-i	SBSwk2	-	5	-	-	SMU-F2	F5_GLCU. R.	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	1.35
838	434	434e	9Fp 1Au w-i	BWBSmw0	-	6	-	-	SMU-F2	F6_GLCU. R.	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	0.63
839	435	435a	9Mbj 1Mvja w-r	BWBSmw0	BWBSmw0 104 104	4	5	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	15.99
840	435	435b	9Mbj 1Mvja w-r	BWBSmw0	-	4	-	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	7.83
841	435	435c	9Mbj 1Mvja w-r	BWBSmw0	BWBSmw0 103 103	3	3	-	SMU-M1	M3_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	8.93
842	435	435d	9Mbj 1Mvja w-r	BWBSmw0	BWBSmw0 104 104	4	5	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	8.07
843	436	436a	8Mbu 2Mbd-L i-w	BWBSwk1	BWBSwk1 101 101	4	4	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	14.94
844	436	436b	8Mbu 2Mbd-L i-w	BWBSwk1	BWBSwk1 101 101	5	4	-	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	12.43
845	436	436c	8Mbu 2Mbd-L i-w	BWBSwk1	-	4	-	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	1.71

Appendix 11-B. Murray River Coal Project: Summary of Acid Sensitivity by Parent Material and Ecological Rating

Sequence	Terrain Poygon ID	TEM Polygon ID	Terrain Label	BEC_variant	TEM_Label	SMR1	SMR2	SMR3	SMUgroup	Soil Mapping Unit	Texture Group	Coarse Fragments	Parent Material	Acid Sensitivity	Critical Load	Area_ha
846	436	436d	8Mbu 2Mbd-L i-w	BWBSwk1	BWBSwk1 110 110	4	5	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	0.76
847	437	437a	9FGv/Mbj 1Ar w-i	BWBSmw0	BWBSmw0 0 RZ	4	n	-	SMU-FG2	FG M4_B	coarse S - L	high	Glaciofluvial	Moderate	500 eq/ha/yr	21.16
848	437	437b	9FGv/Mbj 1Ar w-i	BWBSmw0	BWBSmw0 101 101	4	4	-	SMU-FG2	FG M4_B	coarse S - L	high	Glaciofluvial	Moderate	500 eq/ha/yr	3.65
849	437	437c	9FGv/Mbj 1Ar w-i	BWBSmw0	BWBSmw0 0 RZ	4	n	-	SMU-FG2	FG M4_B	coarse S - L	high	Glaciofluvial	Moderate	500 eq/ha/yr	8.56
850	437	437d	9FGv/Mbj 1Ar w-i	BWBSmw0	-	6	-	-	SMU-FG3	FG M6_G	coarse S - L	high	Glaciofluvial	Moderate	500 eq/ha/yr	0.85
851	437	437e	9FGv/Mbj 1Ar w-i	BWBSmw0	-	4	-	-	SMU-FG2	FG M4_B	coarse S - L	high	Glaciofluvial	Moderate	500 eq/ha/yr	6.67
852	437	437f	9FGv/Mbj 1Ar w-i	BWBSmw0	BWBSmw0 104 104	4	5	-	SMU-FG2	FG M4_B	coarse S - L	high	Glaciofluvial	Moderate	500 eq/ha/yr	1.47
853	437	437g	9FGv/Mbj 1Ar w-i	BWBSmw0	-	4	-	-	SMU-FG2	FG M4_B	coarse S - L	high	Glaciofluvial	Moderate	500 eq/ha/yr	3.21
854	438	438a	6Mu 4Ox/Mp-L m-p	BWBSmw0	BWBSmw0 110 110	4	4	7	SMU-M1	M4_B.lit	mod-fine CL-SiCl	moder	Till neutral	Moderate	500 eq/ha/yr	31.83
855	438	438b	6Mu 4Ox/Mp-L m-p	BWBSmw0	-	6	-	-	SMU-M2	M6_G	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	4.33
856	438	438c	6Mu 4Ox/Mp-L m-p	BWBSmw0	-	4	-	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	8.67
857	439	439a	7Mbu 3Arp w-m	BWBSmw0	BWBSmw0 101 101	n	4	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	28.45
858	439	439b	7Mbu 3Arp w-m	BWBSmw0	BWBSmw0 104 104	4	5	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	20.17
859	440	440a	6Cwaj 3Mwj 1Rk w-r	BWBSwk1	BWBSwk1 103 103	4	5	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	16.97
860	440	440b	6Cwaj 3Mwj 1Rk w-r	BWBSwk1	BWBSwk1 110 110	4	5	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	8.66
861	440	440c	6Cwaj 3Mwj 1Rk w-r	BWBSwk1	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	8.31
862	440	440d	6Cwaj 3Mwj 1Rk w-r	BWBSwk1	BWBSwk1 110 110	3	5	-	SMU-C1	C3_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	13.54
863	441	441	8Mb/Rm 2Mw/Rd-L w-i	ESSFmv2	ESSFmv2 01 FR	4	4	2	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	44.64
864	442	442a	Mb/Rtuj w	BWBSmw0	BWBSmw0 104 104	4	5	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	35.52
865	442	442b	Mb/Rtuj w	BWBSmw0	BWBSmw0 101 101	3	4	-	SMU-M1	M3_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	17.78
866	443	443	Cw/Rrj w	ESSFmv2	ESSFmv2 03 BT	4	4	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	31.35
867	444	444a	Mw/Rtj w	BWBSwk1	-	4	-	-	SMU-M1	M4_B.lit	mod-fine CL-SiCl	moder	Till neutral	Moderate	500 eq/ha/yr	48.09
868	444	444b	Mw/Rtj w	BWBSwk1	-	4	-	-	SMU-M1	M4_B.lit	mod-fine CL-SiCl	moder	Till neutral	Moderate	500 eq/ha/yr	2.06
869	444	444c	Mw/Rtj w	BWBSwk1	BWBSwk1 101 101	4	4	-	SMU-M1	M4_B.lit	mod-fine CL-SiCl	moder	Till neutral	Moderate	500 eq/ha/yr	5.35
870	445	445	7Mba 3Cvk	BWBSwk1	BWBSwk1 103 103	3	5	-	SMU-M1	M3_B.lit	mod-fine CL-SiCl	moder	Till neutral	Moderate	500 eq/ha/yr	25.22
871	446	446a	6Mva 4Mw/Ru w-i	ESSFmv2	ESSFmv2 03 BT	4	4	-	SMU-M1	M4_B.lit	mod-fine CL-SiCl	moder	Till neutral	Moderate	500 eq/ha/yr	13.03
872	446	446b	6Mva 4Mw/Ru w-i	ESSFmv2	ESSFmv2 01 FR	4	4	-	SMU-M1	M4_B.lit	mod-fine CL-SiCl	moder	Till neutral	Moderate	500 eq/ha/yr	3.18
873	446	446c	6Mva 4Mw/Ru w-i	ESSFmv2	ESSFmv2 01 FR	4	4	-	SMU-M1	M4_B.lit	mod-fine CL-SiCl	moder	Till neutral	Moderate	500 eq/ha/yr	4.10
874	446	446d	6Mva 4Mw/Ru w-i	ESSFmv2	ESSFmv2 03 BT	4	4	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	6.45
875	446	446e	6Mva 4Mw/Ru w-i	ESSFmv2	-	4	-	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	0.63
876	446	446f	6Mva 4Mw/Ru w-i	ESSFmv2	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	2.76
877	447	447a	Mbj w	BWBSmw0	BWBSmw0 0 RZ	4	n	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	16.18
878	447	447b	Mbj w	BWBSmw0	-	4	-	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	6.89
879	447	447c	Mbj w	BWBSmw0	-	4	-	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	7.63
880	447	447d	Mbj w	BWBSmw0	-	4	-	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	15.71
881	448	448a	6Mbja 2Mv/Rk 2Mbu-ZL w-i	BWBSwk1	-	4	-	-	SMU-M1	M4_B.lit	mod-fine CL-SiCl	moder	Till neutral	Moderate	500 eq/ha/yr	37.89
882	448	448b	6Mbja 2Mv/Rk 2Mbu-ZL w-i	BWBSwk1	-	4	-	-	SMU-M1	M4_B.lit	mod-fine CL-SiCl	moder	Till neutral	Moderate	500 eq/ha/yr	5.54
883	448	448c	6Mbja 2Mv/Rk 2Mbu-ZL w-i	BWBSwk1	BWBSwk1 110 110	4	5	-	SMU-M1	M4_B.lit	mod-fine CL-SiCl	moder	Till neutral	Moderate	500 eq/ha/yr	13.02
884	448	448d	6Mbja 2Mv/Rk 2Mbu-ZL w-i	BWBSwk1	BWBSwk1 101 101	4	4	-	SMU-M1	M4_B.lit	mod-fine CL-SiCl	moder	Till neutral	Moderate	500 eq/ha/yr	5.40
885	449	449a	7Mu 3Md m-p	BWBSmw0	BWBSmw0 110 110	5	4	7	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	44.05
886	449	449b	7Mu 3Md m-p	BWBSmw0	BWBSmw0 110 110	5	4	-	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	6.07
887	449	449c	7Mu 3Md m-p	BWBSmw0	-	4	-	-	SMU-FG1	FG4_B	coarse S - L	high	Glaciofluvial	High	250 eq/ha/yr	4.41
888	449	449d	7Mu 3Md m-p	BWBSmw0	BWBSmw0 0 RZ	4	n	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	9.69
889	450	450a	8Mbj 2Mba w-m	BWBSwk1	-	4	-	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	28.12
890	450	450b	8Mbj 2Mba w-m	BWBSwk1	-	4	-	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	11.89
891	450	450c	8Mbj 2Mba w-m	BWBSwk1	BWBSwk1 104 104	4	4	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	12.38
892	451	451a	9Mbj 1Mba-V w-p	ESSFmv2	ESSFmv2 03 BT	4	4	-	SMU-M1	M4_B.lit	mod-fine CL-SiCl	moder	Till neutral	Moderate	500 eq/ha/yr	42.60
893	451	451b	9Mbj 1Mba-V w-p	ESSFmv2	-	5	-	-	SMU-M2	M5_B.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	2.56
894	451	451c	9Mbj 1Mba-V w-p	ESSFmv2	ESSFmv2 03 BT	4	4	4	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	13.28
895	452	452a	Cbak-LV w-i	BWBSmw0	BWBSmw0 102 102	5	2	-	SMU-C2	C5_B.g	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	7.08
896	452	452b	Cbak-LV w-i	BWBSmw0	-	4	-	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	9.82
897	452	452c	Cbak-LV w-i	BWBSmw0	BWBSmw0 101 101	3	4	-	SMU-C1	C3_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	1.85
898	452	452d	Cbak-LV w-i	BWBSmw0	BWBSmw0 101 101	3	4	-	SMU-C1	C3_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	14.64
899	452	452e	Cbak-LV w-i	BWBSmw0	-	5	-	-	SMU-C2	C5_BR.GL.g	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	1.22
900	452	452f	Cbak-LV w-i	BWBSmw0	BWBSmw0 0 RN	5	n	-	SMU-C2	C5_BR.GL.g	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	5.02
901	452	452g	Cbak-LV w-i	BWBSmw0	-	5	-	-	SMU-C2	C5_BR.GL.g	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	8.59
902	452	452h	Cbak-LV w-i	BWBSmw0	BWBSmw0 102 102	2	2	-	SMU-C1	C2_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	3.78
903	452	452i	Cbak-LV w-i	BWBSmw0	-	2	-	-	SMU-C1	C2_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	0.78
904	452	452j	Cbak-LV w-i	BWBSmw0	-	3	-	-	SMU-C1	C3_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	1.84
905	452	452k	Cbak-LV w-i	BWBSmw0	BWBSmw0 101 101	5	4	-	SMU-C2	C5_BR.GL.g	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	6.07
906	452	452l	Cbak-LV w-i	BWBSmw0	BWBSmw0 104 104	4	5	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	5.92
907	452	452m	Cbak-LV w-i	BWBSmw0	-	2	-	-	SMU-C1	C2_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	1.23
908	453	453a	5Dv/Rks 5Cbka r-w	BWBSwk1	BWBSwk1 103 103	3	5	-	SMU-C1	C3_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	6.90
909	453	453b	5Dv/Rks 5Cbka r-w	ESSFmv2	-	?	-	-	SMU-R	R3_R.lit	very coarse	very high	Neutral (shale)	High	250 eq/ha/yr	6.57
910	453	453c	5Dv/Rks 5Cbka r-w	BWBSwk1	-	3	-	-	SMU-C1	C3_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	5.88

Appendix 11-B. Murray River Coal Project: Summary of Acid Sensitivity by Parent Material and Ecological Rating

Sequence	Terrain Poygon ID	TEM Polygon ID	Terrain Label	BEC_variant	TEM_Label	SMR1	SMR2	SMR3	SMUgroup	Soil Mapping Unit	Texture Group	Coarse Fragments	Parent Material	Acid Sensitivity	Critical Load	Area_ha
911	453	453d	5Dv/Rks 5Cbka r-w	BWBSwk1	BWBSwk1 102\$ 102\$	3	2	-	SMU-C1	C3_B.lit	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	9.34
912	453	453e	5Dv/Rks 5Cbka r-w	ESSFmv2	-	2	-	-	SMU-R	R2_B.lit	very coarse	very high	Neutral (shale)	High	250 eq/ha/yr	1.92
913	453	453f	5Dv/Rks 5Cbka r-w	ESSFmv2	-	2	-	-	SMU-R	R2_B.lit	very coarse	very high	Neutral (shale)	High	250 eq/ha/yr	1.79
914	453	453g	5Dv/Rks 5Cbka r-w	BWBSwk1	BWBSwk1 103\$ 103\$	5	5	-	SMU-C2	C5_B.g	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	10.86
915	453	453h	5Dv/Rks 5Cbka r-w	BWBSwk1	BWBSwk1 103 103	3	5	-	SMU-C1	C3_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	9.12
916	453	453i	5Dv/Rks 5Cbka r-w	ESSFmv2	ESSFmv2 01 FR	4	4	-	SMU-C1	C4_B.lit	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	1.84
917	454	454a	Mbuj w-m	BWBSmw0	BWBSmw0 0 RZ	4	n	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	55.38
918	454	454b	Mbuj w-m	BWBSmw0	-	4	-	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	0.72
919	454	454c	Mbuj w-m	BWBSmw0	-	4	-	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	1.08
920	454	454d	Mbuj w-m	BWBSmw0	-	4	-	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	0.46
921	454	454e	Mbuj w-m	BWBSmw0	BWBSmw0 0 RZ	4	n	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	9.67
922	454	454f	Mbuj w-m	BWBSmw0	BWBSmw0 110 110	4	4	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	2.11
923	454	454g	Mbuj w-m	BWBSmw0	-	5	-	-	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	0.57
924	454	454h	Mbuj w-m	BWBSmw0	BWBSmw0 0 Wf04	4	7	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	6.27
925	455	455a	Mbaj w-m	BWBSmw0	BWBSmw0 104 104	4	5	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	73.63
926	455	455b	Mbaj w-m	BWBSmw0	BWBSmw0 101 101	4	4	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	3.30
927	456	456	Cw/Rra w	ESSFmv2	ESSFmv2 02 FL	4	2	4	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	39.85
928	457	457a	Mw/Rra w	BWBSmw0	BWBSmw0 0 RZ	3	n	3	SMU-M1	M3_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	31.88
929	457	457b	Mw/Rra w	BWBSmw0	-	2	-	-	SMU-M1	M2_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	8.93
930	457	457c	Mw/Rra w	BWBSmw0	BWBSmw0 0 RZ	3	n	-	SMU-M1	M3_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	27.17
931	457	457d	Mw/Rra w	BWBSmw0	BWBSmw0 103\$ 103\$	3	3	-	SMU-M1	M3_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	12.36
932	458	458a	9Mwa 1Cks r-m	ESSFmv2	ESSFmv2 03 BT	4	4	n	SMU-M1	M4_B.lit	mod-fine CL-SiCl	moder	Till neutral	Moderate	500 eq/ha/yr	26.30
933	458	458b	9Mwa 1Cks r-m	ESSFmv2	ESSFmv2 03 BT	4	4	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	35.60
934	458	458c	9Mwa 1Cks r-m	ESSFmv2	ESSFmv2 03 BT	4	4	n	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	25.39
935	459	459a	7Mbj 3Mw/Rh w	BWBSmw0	BWBSmw0 104 104	4	5	n	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	63.79
936	459	459b	7Mbj 3Mw/Rh w	BWBSmw0	BWBSmw0 104 104	4	5	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	15.13
937	460	460	FGp w-r	BWBSmw0	BWBSmw0 101 101	3	4	-	SMU-FG1	FG3_BR.GL	coarse S - L	high	Glaciofluvial	High	250 eq/ha/yr	22.62
938	461	461	Ahj w-r	BWBSmw0	BWBSmw0 0 RY	n	n	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	38.67
939	462	462a	Mp w-m	BWBSwk1	BWBSwk1 0 RZ	4	n	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	92.95
940	462	462b	Mp w-m	BWBSwk1	BWBSwk1 101 101	4	4	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	4.06
941	462	462c	Mp w-m	BWBSwk1	-	4	-	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	0.93
942	462	462d	Mp w-m	BWBSwk1	BWBSwk1 103 103	4	5	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	5.79
943	462	462e	Mp w-m	BWBSmw0	BWBSmw0 104 104	4	5	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	14.73
944	463	463a	Mw/Ruja w-m	ESSFmv2	ESSFmv2 05 FD	4	5	4	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	62.05
945	463	463b	Mw/Ruja w-m	ESSFmv2	-	4	-	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	5.18
946	464	464a	8Mbj 2Cva w-r	BWBSmw0	BWBSmw0 103\$ 103\$	3	3	-	SMU-M1	M3_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	84.07
947	464	464b	8Mbj 2Cva w-r	BWBSmw0	-	3	-	-	SMU-M1	M3_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	6.98
948	464	464c	8Mbj 2Cva w-r	BWBSmw0	BWBSmw0 101 101	5	4	-	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	17.95
949	464	464d	8Mbj 2Cva w-r	BWBSmw0	-	3	-	-	SMU-M1	M3_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	0.94
950	464	464e	8Mbj 2Cva w-r	BWBSmw0	BWBSmw0 0 RZ	4	n	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	4.34
951	464	464f	8Mbj 2Cva w-r	BWBSmw0	BWBSmw0 102 102	4	2	n	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	37.30
952	464	464g	8Mbj 2Cva w-r	BWBSmw0	-	3	-	-	SMU-M1	M3_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	5.80
953	465	465a	8Cwa 2Cvk w	ESSFmv2	-	2	-	-	SMU-C1	C2_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	28.34
954	465	465b	8Cwa 2Cvk w	ESSFmv2	ESSFmv2 02 FL	2	2	-	SMU-C1	C2_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	6.80
955	465	465c	8Cwa 2Cvk w	ESSFmv2	-	4	-	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	4.53
956	466	466a	5Oxv/Mp 5Mbu p-w	BWBSmw0	BWBSmw0 111 111	n	6	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	1.72
957	466	466b	5Oxv/Mp 5Mbu p-w	BWBSmw0	BWBSmw0 0 Wb06	4	7	-	SMU-O2	O M5_B.g	Organic	None	Organic	Moderate	500 eq/ha/yr	11.66
958	466	466c	5Oxv/Mp 5Mbu p-w	BWBSmw0	BWBSmw0 0 Wb06	6	7	-	SMU-O2	O M6_G.p	Organic	None	Organic	Moderate	500 eq/ha/yr	3.28
959	466	466d	5Oxv/Mp 5Mbu p-w	BWBSmw0	BWBSmw0 0 Wf04	6	7	-	SMU-O2	O M6_G.p	Organic	None	Organic	Moderate	500 eq/ha/yr	6.24
960	466	466e	5Oxv/Mp 5Mbu p-w	BWBSmw0	-	7	-	-	SMU-O1	O7_M	Organic	None	Organic	Moderate	500 eq/ha/yr	10.24
961	466	466f	5Oxv/Mp 5Mbu p-w	BWBSmw0	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	0.84
962	466	466g	5Oxv/Mp 5Mbu p-w	BWBSmw0	-	7	-	-	SMU-O1	O7_M	Organic	None	Organic	Moderate	500 eq/ha/yr	1.10
963	466	466h	5Oxv/Mp 5Mbu p-w	BWBSmw0	-	7	-	-	SMU-O1	O7_M	Organic	None	Organic	Moderate	500 eq/ha/yr	0.82
964	467	467a	7Mbuj 3Mbu-L w-i	BWBSwk1	BWBSwk1 110 110	4	5	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	26.14
965	467	467b	7Mbuj 3Mbu-L w-i	BWBSwk1	BWBSwk1 101 101	3	4	n	SMU-M1	M3_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	4.69
966	467	467c	7Mbuj 3Mbu-L w-i	BWBSwk1	BWBSwk1 110 110	4	5	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	1.91
967	467	467d	7Mbuj 3Mbu-L w-i	BWBSwk1	BWBSwk1 103 103	4	5	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	35.97
968	467	467e	7Mbuj 3Mbu-L w-i	BWBSwk1	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	7.02
969	467	467f	7Mbuj 3Mbu-L w-i	BWBSwk1	BWBSwk1 110 110	4	5	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	16.64
970	467	467g	7Mbuj 3Mbu-L w-i	BWBSwk1	BWBSwk1 111 111	4	6	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	0.56
971	467	467h	7Mbuj 3Mbu-L w-i	BWBSwk1	-	4	-	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	0.15
972	468	468	7Mw/Rtj 3Mw/Ru w-m	ESSFmv2	ESSFmv2 06 FH	4	6	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	53.01
973	469	469a	9Cw/Rrka 1Rk r-w	BWBSwk1	BWBSwk1 101 101	3	4	4	SMU-C1	C3_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	60.87
974	469	469b	9Cw/Rrka 1Rk r-w	BWBSwk1	BWBSwk1 103 103	4	5	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	22.61
975	469	469c	9Cw/Rrka 1Rk r-w	BWBSwk1	BWBSwk1 102 102	4	2	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	8.07

Appendix 11-B. Murray River Coal Project: Summary of Acid Sensitivity by Parent Material and Ecological Rating

Sequence	Terrain Poygon ID	TEM Polygon ID	Terrain Label	BEC_variant	TEM_Label	SMR1	SMR2	SMR3	SMUgroup	Soil Mapping Unit	Texture Group	Coarse Fragments	Parent Material	Acid Sensitivity	Critical Load	Area_ha
976	470	470	Cw/Rks-RL w-i	ESSFmv2	ESSFmv2 05 FD	4	5	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	17.10
977	471	471	7Cwak 2Rk 1Dvj r-w	ESSFmv2	ESSFmv2 0 TA	2	2	4	SMU-C1	C2_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	11.24
978	472	472	Cw/Rr w	ESSFmv2	ESSFmv2 03 BT	2	4	-	SMU-C1	C2_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	6.55
979	473	473	7Ap 3Ahu r	BWBSwk1	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	34.53
980	474	474	8Mbaj 2Cva w	ESSFmv2	ESSFmv2 01 FR	4	4	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	11.70
981	475	475a	Mw/Rr-V w	ESSFmv2	ESSFmv2 04 FO	4	4	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	5.51
982	475	475b	Mw/Rr-V w	ESSFmv2	-	4	-	-	SMU-M1	M4_B.lit	mod-fine CL-SiCl	moder	Till neutral	Moderate	500 eq/ha/yr	4.42
983	476	476	Cwk r-w	ESSFmv2	ESSFmv2 03 BT	4	4	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	4.47
984	477	477	Ap w	ESSFmv2	-	?	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	1.68
985	478	478	Mbu	BWBSwk1	BWBSwk1 104 104	4	4	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	14.52
986	479	479	Ov/Mbd p	BWBSmw0	-	7	-	-	SMU-O1	O7_M	Organic	None	Organic	Moderate	500 eq/ha/yr	9.95
987	480	480	Mbj-L i-w	ESSFmv2	ESSFmv2 01 FR	5	4	-	SMU-M2	M5_B.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	14.81
988	481	481a	8Mwa-V 2Cva w	ESSFmv2	ESSFmv2 01 FR	4	4	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	10.24
989	481	481b	8Mwa-V 2Cva w	BWBSwk1	-	4	-	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	4.59
990	482	482	Mw/Rtj-L w-m	ESSFmv2	ESSFmv2 05 FD	4	5	-	SMU-M1	M4_B.lit	mod-fine CL-SiCl	moder	Till neutral	Moderate	500 eq/ha/yr	38.38
991	483	483	8Mw/Rat 2Rs r-m	BWBSmw0	BWBSmw0 101 101	3	4	6	SMU-M1	M3_B.lit	mod-fine CL-SiCl	moder	Till neutral	Moderate	500 eq/ha/yr	24.17
992	484	484	8Dv/Rks 2Cvk r	BWBSwk1	-	2	-	-	SMU-R	R2_B.lit	very coarse	very high	Neutral (shale)	High	250 eq/ha/yr	11.74
993	485	485	8Cw/Rt 2Mvj m	ESSFmv2	ESSFmv2 03 BT	4	4	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	5.03
994	486	486a	Cba w	BWBSwk1	-	5	-	-	SMU-C2	C5_B.g	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	5.88
995	486	486b	Cba w	BWBSwk1	-	5	-	-	SMU-C2	C5_B.g	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	3.45
996	487	487a	6Cwa 4Mwuj r-m	ESSFmv2	ESSFmv2 03 BT	4	4	n	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	21.42
997	487	487b	6Cwa 4Mwuj r-m	ESSFmv2	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	0.20
998	487	487c	6Cwa 4Mwuj r-m	ESSFmv2	ESSFmv2 01 FR	4	4	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	5.08
999	487	487d	6Cwa 4Mwuj r-m	ESSFmv2	ESSFmv2 03 BT	4	4	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	2.93
1000	487	487e	6Cwa 4Mwuj r-m	ESSFmv2	ESSFmv2 05 FD	4	5	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	5.54
1001	487	487f	6Cwa 4Mwuj r-m	ESSFmv2	ESSFmv2 03 BT	n	4	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	1.14
1002	488	488a	8Mwka 2Fb-L m-i	BWBSwk1	BWBSwk1 110 110	4	5	3	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	3.68
1003	488	488b	8Mwka 2Fb-L m-i	BWBSwk1	BWBSwk1 0 RZ	4	n	5	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	2.39
1004	489	489a	8Cvka 2Rks r-m	BWBSwk1	BWBSwk1 103 103	3	5	n	SMU-C1	C3_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	4.59
1005	489	489b	8Cvka 2Rks r-m	BWBSwk1	BWBSwk1 103\$ 103\$	4	5	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	2.03
1006	490	490	Mw/Rau w-m	BWBSwk1	-	4	-	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	3.99
1007	491	491a	7Mbj 3Mwa w	BWBSmw0	BWBSmw0 103 103	4	3	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	5.88
1008	491	491b	7Mbj 3Mwa w	BWBSmw0	BWBSmw0 101 101	n	4	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	1.88
1009	492	492	8Cwaj 2Mba-V w-m	BWBSwk1	BWBSwk1 101 101	4	4	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	32.00
1010	493	493a	8Mbj 2Cx/Mbj w	BWBSwk1	BWBSwk1 110 110	4	5	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	33.40
1011	493	493b	8Mbj 2Cx/Mbj w	BWBSwk1	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	0.68
1012	494	494a	7Mbj 3Mbu-L w-i	BWBSmw0	BWBSmw0 104 104	4	5	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	14.80
1013	494	494b	7Mbj 3Mbu-L w-i	BWBSmw0	BWBSmw0 101 101	n	4	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	2.60
1014	495	495	8Cwa 2Fbj w-i	BWBSwk1	BWBSwk1 101 101	5	4	-	SMU-C2	C5_B.g	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	11.22
1015	496	496a	Ov/Mp v	BWBSwk1	-	6	-	-	SMU-F2	F6_G.p	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	1.39
1016	496	496b	Ov/Mp v	BWBSwk1	-	6	-	-	SMU-F2	F6_G.p	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	0.29
1017	496	496c	Ov/Mp v	BWBSwk1	-	6	-	-	SMU-F2	F6_G.p	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	0.59
1018	497	497a	Mbu w-m	ESSFmv2	ESSFmv2 04 FO	4	4	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	7.48
1019	497	497b	Mbu w-m	ESSFmv2	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	0.27
1020	497	497c	Mbu w-m	ESSFmv2	ESSFmv2 04 FO	4	4	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	1.66
1021	497	497d	Mbu w-m	ESSFmv2	ESSFmv2 06 FH	4	6	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	0.30
1022	498	498a	Mw/Rmu w-m	ESSFmv2	ESSFmv2 04 FO	4	4	-	SMU-M1	M4_B.lit	mod-fine CL-SiCl	moder	Till neutral	Moderate	500 eq/ha/yr	8.43
1023	498	498b	Mw/Rmu w-m	ESSFmv2	ESSFmv2 04 FO	4	4	-	SMU-M1	M4_B.lit	mod-fine CL-SiCl	moder	Till neutral	Moderate	500 eq/ha/yr	2.95
1024	499	499	6Mbj-V 4Mb-L p-m	ESSFmv2	ESSFmv2 01 FR	5	4	6	SMU-M2	M5_B.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	29.45
1025	500	500a	Mbuj Mba w-m	ESSFmv2	ESSFmv2 02 FL	4	2	5	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	18.35
1026	500	500b	Mbuj Mba w-m	ESSFmv2	ESSFmv2 03 BT	4	4	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	5.30
1027	500	500c	Mbuj Mba w-m	ESSFmv2	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	5.25
1028	500	500d	Mbuj Mba w-m	ESSFmv2	ESSFmv2 03 BT	4	4	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	3.38
1029	500	500e	Mbuj Mba w-m	ESSFmv2	ESSFmv2 03 BT	5	4	6	SMU-M2	M5_B.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	11.29
1030	501	501a	Mbj-VL m-i	ESSFmv2	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	4.76
1031	501	501b	Mbj-VL m-i	ESSFmv2	ESSFmv2 06 FH	5	6	-	SMU-M2	M5_B.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	16.21
1032	501	501c	Mbj-VL m-i	ESSFmv2	ESSFmv2 05 FD	4	5	4	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	17.48
1033	501	501d	Mbj-VL m-i	ESSFmv2	ESSFmv2 04 FO	4	4	4	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	5.35
1034	502	502	Aj	BWBSmw0	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	9.58
1035	503	503	9Mb/Ru 1Ov/Md w-i	ESSFmv2	ESSFmv2 06 FH	4	6	7	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	23.11
1036	504	504a	Cw/Rta w-r	ESSFmv2	ESSFmv2 03 BT	4	4	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	17.32
1037	504	504b	Cw/Rta w-r	ESSFmv2	ESSFmv2 03 BT	4	4	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	8.10
1038	505	505	Mbj-L p-i	ESSFmv2	ESSFmv2 03 BT	6	4	5	SMU-M2	M6_G	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	12.09
1039	506	506	Mbu m-p	ESSFmv2	ESSFmv2 03 BT	5	4	-	SMU-M2	M5_B.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	4.40
1040	507	507	Mba-LV p	ESSFmv2	ESSFmv2 05 FD	5	5	-	SMU-M2	M5_B.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	5.31

Appendix 11-B. Murray River Coal Project: Summary of Acid Sensitivity by Parent Material and Ecological Rating

Sequence	Terrain Poygon ID	TEM Polygon ID	Terrain Label	BEC_variant	TEM_Label	SMR1	SMR2	SMR3	SMUgroup	Soil Mapping Unit	Texture Group	Coarse Fragments	Parent Material	Acid Sensitivity	Critical Load	Area_ha
1041	508	508	5Cvk 5Mwa-V r-m	ESSFmv2	ESSFmv2 03 BT	4	4	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	7.86
1042	509	509a	Mbaj w	ESSFmv2	ESSFmv2 03 BT	4	4	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	11.08
1043	509	509b	Mbaj w	ESSFmv2	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	0.48
1044	510	510	Mbj-L p	ESSFmv2	ESSFmv2 06 FH	5	6	-	SMU-M2	M5_B.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	3.01
1045	511	511a	5Rr 5Cva r-w	ESSFmv2	ESSFmv2 02 FL	0	2	2	SMU-R	R0_n	very coarse	very high	Neutral (shale)	High	250 eq/ha/yr	3.66
1046	511	511b	5Rr 5Cva r-w	ESSFmv2	ESSFmv2 01 FR	2	4	-	SMU-R	R2_B.lit	very coarse	very high	Neutral (shale)	High	250 eq/ha/yr	4.29
1047	511	511c	5Rr 5Cva r-w	ESSFmv2	ESSFmv2 0 ES	2	-	-	SMU-R	R2_B.lit	very coarse	very high	Neutral (shale)	High	250 eq/ha/yr	3.09
1048	512	512	9Rr 1Rs r	ESSFmv2	ESSFmv2 02 FL	0	2	-	SMU-R	R0_n	very coarse	very high	Neutral (shale)	High	250 eq/ha/yr	3.37
1049	513	513	8Cwa 2Rrk r-w	ESSFmv2	ESSFmv2 02 FL	2	2	-	SMU-C1	C2_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	13.04
1050	514	514a	6Cva-V 4Mwj w-i	ESSFmv2	ESSFmv2 01 FR	5	4	-	SMU-M2	M5_B.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	12.63
1051	514	514b	6Cva-V 4Mwj w-i	ESSFmv2	-	2	-	-	SMU-M1	M2_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	1.93
1052	514	514c	6Cva-V 4Mwj w-i	ESSFmv2	ESSFmv2 01 FR	5	4	-	SMU-M2	M5_B.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	15.03
1053	514	514d	6Cva-V 4Mwj w-i	ESSFmv2	ESSFmv2 05 FD	4	5	-	SMU-M1	M4_B.lit	mod-fine CL-SiCl	moder	Till neutral	Moderate	500 eq/ha/yr	3.59
1054	515	515a	Cbaj m-w	ESSFmv2	ESSFmv2 04 FO	4	4	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	13.06
1055	515	515b	Cbaj m-w	ESSFmv2	ESSFmv2 02 FL	4	2	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	3.95
1056	516	516a	Cvra r-w	ESSFmv2	ESSFmv2 02 FL	4	2	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	4.03
1057	516	516b	Cvra r-w	ESSFmv2	-	4	-	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	2.20
1058	517	517	6Mwhu 4Aj w	BWBSmw0	BWBSmw0 0 RY	5	n	-	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	15.91
1059	518	518	Aak r	BWBSmw0	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	14.85
1060	519	519	7Cwa-V 3Mbj m-i	ESSFmv2	ESSFmv2 04 FO	4	4	6	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	13.43
1061	520	520	Mbj m-w	BWBSmw0	BWBSmw0 101 101	4	4	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	27.08
1062	521	521a	6Fba-F 4Fap -ir	SBSwk2	SBSwk2 0 Fm02	4	5	-	SMU-F1	F4_B	coarse S-LS	high	Fluvial	High	250 eq/ha/yr	5.12
1063	521	521b	6Fba-F 4Fap -ir	BWBSmw0	BWBSmw0 112 112	6	6	6	SMU-F2	F6_GLCU. R.	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	3.25
1064	521	521c	6Fba-F 4Fap -ir	BWBSmw0	BWBSmw0 101 101	?	4	6	SMU-F1	F2_CU.R	coarse S-LS	high	Fluvial	High	250 eq/ha/yr	4.87
1065	521	521d	6Fba-F 4Fap -ir	SBSwk2	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	0.85
1066	522	522	Ap r	BWBSmw0	BWBSmw0 0 RZ	?	n	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	2.75
1067	523	523a	FGu r	SBSwk2	SBSwk2 02 LH	2	2	-	SMU-FG1	FG2_B	coarse S - L	high	Glaciofluvial	High	250 eq/ha/yr	2.98
1068	523	523b	FGu r	BWBSmw0	-	2	-	-	SMU-FG1	FG2_B	coarse S - L	high	Glaciofluvial	High	250 eq/ha/yr	0.41
1069	523	523c	FGu r	SBSwk2	SBSwk2 0 RZ	n	n	2	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	7.51
1070	523	523d	FGu r	BWBSmw0	BWBSmw0 102 102	2	2	-	SMU-FG1	FG2_B	coarse S - L	high	Glaciofluvial	High	250 eq/ha/yr	6.09
1071	524	524a	8Cwa 2Mva w-r	SBSwk2	SBSwk2 03 SC	4	3	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	20.56
1072	524	524b	8Cwa 2Mva w-r	BWBSmw0	BWBSmw0 101 101	3	4	-	SMU-C1	C3_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	17.17
1073	525	525	Ov/Mwd v	ESSFmv2	ESSFmv2 0 Ws	6	6	-	SMU-F2	F6_G.p	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	2.24
1074	526	526	Mbj-L i-m	ESSFmv2	ESSFmv2 04 FO	5	4	-	SMU-M2	M5_B.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	13.62
1075	527	527	Cba r	BWBSwk1	-	3	-	-	SMU-C1	C3_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	3.05
1076	528	528	Mwa w	ESSFmv2	-	4	-	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	7.72
1077	529	529a	8Cw/Rrka 2Rk r-w	BWBSwk1	BWBSwk1 103 103	2	5	4	SMU-C1	C2_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	40.20
1078	529	529b	8Cw/Rrka 2Rk r-w	ESSFmv2	ESSFmv2 03 BT	4	4	2	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	14.59
1079	530	530	Mwa w-i	ESSFmv2	-	5	-	-	SMU-M2	M5_B.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	2.84
1080	531	531	7Mbj 3Mbj-L m-i	ESSFmv2	ESSFmv2 04 FO	5	4	6	SMU-M2	M5_B.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	12.32
1081	532	532	Mb-VL ip	BWBSwk1	BWBSwk1 110 110	n	5	4	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	3.67
1082	533	533a	Ov/Cbp v	BWBSwk1	-	6	-	-	SMU-F2	F6_G.p	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	1.37
1083	533	533b	Ov/Cbp v	BWBSwk1	-	5	-	-	SMU-O2	O5_G.p	Organic	None	Organic	Moderate	500 eq/ha/yr	0.81
1084	534	534	6Mwja 4Mbu-L w-i	BWBSwk1	BWBSwk1 110 110	4	5	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	3.58
1085	535	535a	6Mbj 4Mwra w-r	BWBSmw0	BWBSmw0 104 104	4	5	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	11.26
1086	535	535b	6Mbj 4Mwra w-r	BWBSwk1	-	3	-	-	SMU-M1	M3_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	3.68
1087	536	536	7Cva 3Mw/Ru w-m	ESSFmv2	ESSFmv2 04 FO	4	4	2	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	21.20
1088	537	537	5Cv/Mbj 5Mbj w-m	BWBSmw0	BWBSmw0 101 101	4	4	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	6.64
1089	538	538	7Faf 3Cvsk-V i-m	BWBSmw0	BWBSmw0 101 101	4	4	-	SMU-F1	F4_CU.R	coarse S-LS	high	Fluvial	High	250 eq/ha/yr	2.93
1090	539	539a	6Mbu 4Cva w-r	BWBSwk1	BWBSwk1 103 103	4	5	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	11.06
1091	539	539b	6Mbu 4Cva w-r	BWBSwk1	-	4	-	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	3.94
1092	539	539c	6Mbu 4Cva w-r	BWBSwk1	BWBSwk1 101 101	n	4	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	2.70
1093	540	540a	Ov/Mbp v-p	BWBSwk1	-	6	-	-	SMU-O2	O1M6_G.p	Organic	None	Organic	Moderate	500 eq/ha/yr	2.14
1094	540	540b	Ov/Mbp v-p	BWBSwk1	-	6	-	-	SMU-F2	F6_G.p	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	1.35
1095	541	541a	5Cvka 4Mwa 1Dvk r-w	BWBSwk1	BWBSwk1 101 101	3	4	-	SMU-C1	C3_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	5.30
1096	541	541b	5Cvka 4Mwa 1Dvk r-w	BWBSwk1	-	4	-	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	0.75
1097	541	541c	5Cvka 4Mwa 1Dvk r-w	BWBSwk1	BWBSwk1 110 110	4	5	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	3.83
1098	542	542a	Mwa w-m	BWBSwk1	-	4	-	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	2.86
1099	542	542b	Mwa w-m	BWBSwk1	BWBSwk1 101 101	5	4	-	SMU-M2	M5_B.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	2.69
1100	543	543a	9Cks-R'sV 1Cbu-Rc m-i	ESSFmv2	ESSFmv2 01 FR	4	4	4	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	14.75
1101	543	543b	9Cks-R'sV 1Cbu-Rc m-i	ESSFmv2	ESSFmv2 04 FO	4	4	-	SMU-C1	C4_O.HFP	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	3.62
1102	543	543c	9Cks-R'sV 1Cbu-Rc m-i	ESSFmv2	ESSFmv2 01 FR	4	4	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	1.38
1103	543	543d	9Cks-R'sV 1Cbu-Rc m-i	ESSFmv2	-	4	-	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	0.55
1104	543	543e	9Cks-R'sV 1Cbu-Rc m-i	ESSFmv2	ESSFmv2 04 FO	4	4	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	1.30
1105	544	544a	Cbu-Rc m-i	ESSFmv2	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	1.70

Appendix 11-B. Murray River Coal Project: Summary of Acid Sensitivity by Parent Material and Ecological Rating

Sequence	Terrain Poygon ID	TEM Polygon ID	Terrain Label	BEC_variant	TEM_Label	SMR1	SMR2	SMR3	SMUgroup	Soil Mapping Unit	Texture Group	Coarse Fragments	Parent Material	Acid Sensitivity	Critical Load	Area_ha
1106	544	544b	Cbu-Rc m-i	ESSFmv2	ESSFmv2 02 FL	4	2	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	1.28
1107	544	544c	Cbu-Rc m-i	ESSFmv2	ESSFmv2 05 FD	4	5	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	1.55
1108	545	545a	Mw/Ru w-i	ESSFmv2	ESSFmv2 01 FR	4	4	6	SMU-M1	M4_B.lit	mod-fine CL-SiCl	moder	Till neutral	Moderate	500 eq/ha/yr	6.33
1109	545	545b	Mw/Ru w-i	ESSFmv2	ESSFmv2 01 FR	4	4	-	SMU-M1	M4_B.lit	mod-fine CL-SiCl	moder	Till neutral	Moderate	500 eq/ha/yr	5.07
1110	546	546	Mvx/Rra r-m	BWBSwk1	BWBSwk1 103\$ 103\$	3	5	-	SMU-M1	M3_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	2.53
1111	547	547	8Cwk 2Rs r	BWBSwk1	BWBSwk1 103\$ 103\$	3	5	-	SMU-C1	C3_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	5.59
1112	548	548	8Cwk 2Mwaj w-r	BWBSwk1	BWBSwk1 101 101	4	4	5	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	11.26
1113	549	549	7Mwa 3Mbj-L w-i	ESSFmv2	ESSFmv2 05 FD	4	5	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	3.88
1114	550	550a	gksFGsk r-i	BWBSmw0	BWBSmw0 0 ES	4	-	-	SMU-O2	O1M5_B.g	Organic	None	Organic	Moderate	500 eq/ha/yr	2.15
1115	550	550b	gksFGsk r-i	BWBSmw0	-	4	-	-	SMU-C1	C4_R	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	1.18
1116	550	550c	gksFGsk r-i	BWBSmw0	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	0.34
1117	551	551	Apr	ESSFmv2	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	1.84
1118	552	552	Ap w	BWBSmw0	-	?	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	7.78
1119	553	553	8Mbj 2Mbp-L w-i	BWBSmw0	BWBSmw0 101 101	5	4	-	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	13.27
1120	554	554a	FGt r-w	BWBSmw0	BWBSmw0 102 102	2	2	2	SMU-FG1	FG2_B	coarse S - L	high	Glaciofluvial	High	250 eq/ha/yr	12.21
1121	554	554b	FGt r-w	SBSwk2	-	4	-	-	SMU-FG1	FG4_B	coarse S - L	high	Glaciofluvial	High	250 eq/ha/yr	2.33
1122	555	555	8Op 1Fp 1W v	BWBSmw0	BWBSmw0 0 Wf04	6	7	99	SMU-F2	F6_G.p	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	14.38
1123	556	556	8Ov/Mu 2Fp p-v	BWBSmw0	-	6	-	-	SMU-O2	O1M6_G.p	Organic	None	Organic	Moderate	500 eq/ha/yr	1.87
1124	557	557	5Cvks 4Mwa 1Fbj w-i	BWBSmw0	BWBSmw0 0 RI	4	99	3	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	7.72
1125	558	558	PO	BWBSmw0	-	99	-	-	OpWater	OW99_n	Open Water	-	-	not rated	-	0.58
1126	559	559	Ap r	BWBSmw0	-	?	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	2.41
1127	560	560	8Mw/Ruj 2Md w-m	BWBSmw0	BWBSmw0 101\$ 101\$	3	4	-	SMU-M1	M3_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	7.92
1128	561	561a	Mw/Ru m-i	BWBSmw0	-	5	-	-	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	10.78
1129	561	561b	Mw/Ru m-i	BWBSmw0	-	5	-	-	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	2.11
1130	562	562	5Mbp-L 5Fp-L i-p	BWBSmw0	-	4	-	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	7.18
1131	563	563	6Dvks 4Cvk r-w	BWBSwk1	BWBSwk1 101 101	?	4	6	SMU-C1	C2_R	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	1.19
1132	564	564a	9Au 1Fp w-i	BWBSmw0	BWBSmw0 112 112	4	6	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	36.52
1133	564	564b	9Au 1Fp w-i	BWBSmw0	BWBSmw0 112 112	6	6	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	4.30
1134	565	565	PO	BWBSmw0	BWBSmw0 0 Wm01	99	7	-	OpWater	OW99_n	Open Water	-	-	not rated	-	8.01
1135	566	566	Mbu w	BWBSmw0	-	4	-	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	2.80
1136	567	567	zcMbj m-i	BWBSwk1	BWBSwk1 103 103	5	5	-	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	4.53
1137	568	568a	zcMbp m	BWBSwk1	BWBSwk1 103 103	4	5	5	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	28.70
1138	568	568b	zcMbp m	BWBSwk1	BWBSwk1 104 104	4	4	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	1.04
1139	568	568c	zcMbp m	BWBSwk1	-	4	-	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	7.87
1140	568	568d	zcMbp m	BWBSwk1	-	4	-	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	11.74
1141	568	568e	zcMbp m	BWBSwk1	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	0.56
1142	569	569	zcMwbua w	BWBSmw0	-	3	-	-	SMU-M1	M3_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	3.62
1143	570	570a	6Cva 4Mwj w-r	BWBSwk1	BWBSwk1 110 110	4	5	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	41.26
1144	570	570b	6Cva 4Mwj w-r	BWBSwk1	BWBSwk1 101 101	4	4	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	2.92
1145	570	570c	6Cva 4Mwj w-r	BWBSwk1	BWBSwk1 101 101	4	4	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	12.23
1146	571	571	czsMbjm w	BWBSwk1	-	4	-	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	20.60
1147	572	572a	6Mbu 4Mw/Ra w-r	BWBSwk1	BWBSwk1 102 102	4	2	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	6.41
1148	572	572b	6Mbu 4Mw/Ra w-r	BWBSwk1	BWBSwk1 103 103	4	5	5	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	3.72
1149	572	572c	6Mbu 4Mw/Ra w-r	BWBSwk1	BWBSwk1 104 104	4	4	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	7.07
1150	572	572d	6Mbu 4Mw/Ra w-r	BWBSwk1	BWBSwk1 104 104	4	4	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	4.15
1151	572	572e	6Mbu 4Mw/Ra w-r	BWBSwk1	BWBSwk1 103 103	3	5	-	SMU-M1	M3_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	6.33
1152	573	573a	6Mbj 4Mbp-L m-i	BWBSwk1	BWBSwk1 110 110	5	5	-	SMU-M2	M5_B.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	15.26
1153	573	573b	6Mbj 4Mbp-L m-i	BWBSwk1	BWBSwk1 104 104	4	4	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	8.28
1154	574	574	Mbj-L i-m	BWBSwk1	BWBSwk1 110 110	5	5	-	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	2.11
1155	575	575	FGv/Mbj-L i	BWBSwk1	BWBSwk1 110\$ 110\$	5	5	-	SMU-FG3	FG5_BR.GL.g	coarse S - L	high	Glaciofluvial	Moderate	500 eq/ha/yr	2.14
1156	576	576	Cba w	BWBSmw0	-	4	-	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	0.99
1157	577	577a	Ov/Mbj i-p	BWBSmw0	-	7	-	-	SMU-O1	O7_M	Organic	None	Organic	Moderate	500 eq/ha/yr	1.71
1158	577	577b	Ov/Mbj i-p	BWBSmw0	BWBSmw0 0 Wb06	6	7	-	SMU-M2	M6_G	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	1.36
1159	578	578	FGvx/Mbu w	BWBSmw0	BWBSmw0 0 RZ	4	n	-	SMU-FG2	FG1M4_B	coarse S - L	high	Glaciofluvial	Moderate	500 eq/ha/yr	2.01
1160	579	579	zsFGv/gzcMup m	BWBSmw0	BWBSmw0 101 101	4	4	-	SMU-FG2	FG1M4_B	coarse S - L	high	Glaciofluvial	Moderate	500 eq/ha/yr	2.38
1161	580	580	7Cwra 3Mwuj w	BWBSmw0	-	4	-	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	7.82
1162	581	581	Ats w-r	BWBSmw0	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	9.88
1163	582	582a	szgFp i-m	BWBSmw0	BWBSmw0 111\$ 111\$	6	6	6	SMU-F2	F6_GLCU. R.	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	9.58
1164	582	582b	szgFp i-m	BWBSmw0	BWBSmw0 112 112	6	6	6	SMU-F2	F6_GLCU. R.	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	7.58
1165	583	583a	gksFGpj r	BWBSmw0	BWBSmw0 0 RZ	3	n	2	SMU-FG1	FG3_B	coarse S - L	high	Glaciofluvial	High	250 eq/ha/yr	6.76
1166	583	583b	gksFGpj r	BWBSmw0	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	3.08
1167	583	583c	gksFGpj r	BWBSmw0	BWBSmw0 0 RZ	4	n	2	SMU-FG1	FG4_B	coarse S - L	high	Glaciofluvial	High	250 eq/ha/yr	5.91
1168	583	583d	gksFGpj r	BWBSmw0	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	2.13
1169	584	584	Auh w	BWBSmw0	BWBSmw0 0 RY	n	n	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	5.67
1170	585	585	Ata w-r	BWBSmw0	BWBSmw0 103 103	n	4	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	14.27

Appendix 11-B. Murray River Coal Project: Summary of Acid Sensitivity by Parent Material and Ecological Rating

Sequence	Terrain Poygon ID	TEM Polygon ID	Terrain Label	BEC_variant	TEM_Label	SMR1	SMR2	SMR3	SMUgroup	Soil Mapping Unit	Texture Group	Coarse Fragments	Parent Material	Acid Sensitivity	Critical Load	Area_ha
1171	586	586	Ats r	BWBSwk1	BWBSwk1 0 RY	n	n	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	4.20
1172	587	587	7Mdp-L 3Ov/Mp p-i	BWBSmw0	BWBSmw0 103 103	3	3	-	SMU-FG2	FG M3_B	coarse S - L	high	Glaciofluvial	Moderate	500 eq/ha/yr	10.69
1173	588	588	Mbd-L i-p	BWBSmw0	-	5	-	-	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	2.36
1174	589	589a	Mbp-L Mbu p-i	BWBSmw0	BWBSmw0 110 110	5	4	n	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	16.43
1175	589	589b	Mbp-L Mbu p-i	BWBSmw0	-	6	-	-	SMU-M2	M6_G	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	2.11
1176	590	590	Mbp_m	BWBSmw0	-	5	-	-	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	6.16
1177	591	591a	6Mbu w-m 4Mp i	BWBSmw0	BWBSmw0 101 101	5	4	-	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	9.76
1178	591	591b	6Mbu w-m 4Mp i	BWBSmw0	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	1.03
1179	591	591c	6Mbu w-m 4Mp i	BWBSmw0	-	6	-	-	SMU-M2	M6_G	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	1.25
1180	591	591d	6Mbu w-m 4Mp i	BWBSmw0	-	4	-	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	8.83
1181	592	592	PO	BWBSmw0	-	99	-	-	OpWater	OW99_n	Open Water	-	-	not rated	-	10.88
1182	593	593	8FGv/Mbj-L 2Ov/Mb i-p	BWBSmw0	BWBSmw0 111 111	5	6	-	SMU-FG3	FG M5_B.g	coarse S - L	high	Glaciofluvial	Moderate	500 eq/ha/yr	10.80
1183	594	594a	Mwj w	BWBSmw0	BWBSmw0 104 104	4	5	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	33.74
1184	594	594b	Mwj w	BWBSmw0	BWBSmw0 101\$ 101\$	4	4	n	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	77.81
1185	594	594c	Mwj w	BWBSmw0	-	4	-	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	6.27
1186	594	594d	Mwj w	BWBSmw0	-	4	-	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	1.19
1187	594	594e	Mwj w	BWBSmw0	BWBSmw0 101 101	4	4	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	13.55
1188	594	594f	Mwj w	BWBSmw0	-	4	-	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	6.14
1189	594	594g	Mwj w	BWBSmw0	BWBSmw0 0 RZ	4	n	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	9.15
1190	594	594h	Mwj w	BWBSmw0	-	5	-	-	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	2.00
1191	594	594i	Mwj w	BWBSmw0	-	4	-	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	6.69
1192	594	594j	Mwj w	BWBSmw0	BWBSmw0 104 104	4	5	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	6.22
1193	595	595	Mbu w-i	ESSFmv2	ESSFmv2 01 FR	4	4	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	8.17
1194	596	596a	8Mbuj 2Mb-L w-m	BWBSmw0	BWBSmw0 101 101	3	4	-	SMU-M1	M3_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	17.47
1195	596	596b	8Mbuj 2Mb-L w-m	BWBSwk1	BWBSwk1 0 RZ	4	n	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	7.66
1196	596	596c	8Mbuj 2Mb-L w-m	BWBSwk1	BWBSwk1 110 110	4	5	4	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	50.92
1197	596	596d	8Mbuj 2Mb-L w-m	BWBSmw0	BWBSmw0 101 101	3	4	n	SMU-M1	M3_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	5.53
1198	596	596e	8Mbuj 2Mb-L w-m	BWBSmw0	-	3	-	-	SMU-FG2	FG M3_B	coarse S - L	high	Glaciofluvial	Moderate	500 eq/ha/yr	7.33
1199	596	596f	8Mbuj 2Mb-L w-m	BWBSmw0	BWBSmw0 0 RZ	4	n	4	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	25.60
1200	596	596g	8Mbuj 2Mb-L w-m	BWBSmw0	BWBSmw0 101 101	3	4	n	SMU-M1	M3_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	22.23
1201	597	597	6Mbj-L 4Mba w-i	BWBSmw0	BWBSmw0 103 103	n	4	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	1.71
1202	598	598a	7Cwk-V 3Mwka r-m	BWBSmw0	BWBSmw0 102 102	5	2	-	SMU-C2	C5_B.g	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	7.42
1203	598	598b	7Cwk-V 3Mwka r-m	BWBSmw0	BWBSmw0 104 104	4	5	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	4.44
1204	598	598c	7Cwk-V 3Mwka r-m	BWBSmw0	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	1.08
1205	599	599	Cwk-V	BWBSmw0	-	3	-	-	SMU-C1	C3_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	1.09
1206	600	600	Mw/Rt	ESSFmv2	ESSFmv2 05 FD	4	5	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	6.23
1207	601	601	Cva	ESSFmv2	ESSFmv2 05 FD	4	5	6	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	23.32
1208	602	602	Mbd	ESSFmv2	ESSFmv2 01 FR	6	4	-	SMU-M2	M6_G	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	1.61
1209	603	603	Cvxx	BWBSwk1	-	5	-	-	SMU-C2	C5_B.g	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	16.69
1210	604	604	Cywa	BWBSwk1	BWBSwk1 110 110	4	5	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	56.99
1211	605	605a	8Cwak 2Mwj	BWBSwk1	BWBSwk1 110 110	4	5	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	5.34
1212	605	605b	8Cwak 2Mwj	ESSFmv2	-	4	-	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	3.92
1213	605	605c	8Cwak 2Mwj	BWBSwk1	BWBSwk1 110 110	n	5	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	4.27
1214	605	605d	8Cwak 2Mwj	BWBSwk1	BWBSwk1 0 RZ	?	n	-	SMU-C1	C4_B.lit	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	0.49
1215	606	606	OW	BWBSwk1	-	99	-	-	OpWater	OW99_n	Open Water	-	-	not rated	-	4.10
1216	607	607	Cf-R	BWBSwk1	BWBSwk1 110 110	n	5	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	1.09
1217	608	608a	8Mwak-V 2Mbj	BWBSwk1	BWBSwk1 110 110	4	5	-	SMU-M1	M4_B.lit	mod-fine CL-SiCl	moder	Till neutral	Moderate	500 eq/ha/yr	8.39
1218	608	608b	8Mwak-V 2Mbj	BWBSwk1	BWBSwk1 101 101	4	4	5	SMU-M1	M4_B.lit	mod-fine CL-SiCl	moder	Till neutral	Moderate	500 eq/ha/yr	6.13
1219	608	608c	8Mwak-V 2Mbj	ESSFmv2	ESSFmv2 01 FR	4	4	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	8.00
1220	609	609	Uks-R	ESSFmv2	ESSFmv2 01 FR	6	4	6	SMU-F2	F6_G.r	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	1.34
1221	610	610	7Ox/Fp-U 3Fp	BWBSwk1	BWBSwk1 0 OW	6	99	-	SMU-F2	F6_G.p	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	2.55
1222	611	611	7Ox/Fp-U 3OW	BWBSwk1	BWBSwk1 0 OW	6	99	-	SMU-F2	F6_G.p	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	1.96
1223	612	612a	8Cvxx 2Us-FR	BWBSwk1	BWBSwk1 110 110	5	5	-	SMU-C2	C5_B.g	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	5.59
1224	612	612b	8Cvxx 2Us-FR	BWBSwk1	BWBSwk1 103 103	5	5	-	SMU-C2	C5_B.g	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	2.82
1225	613	613	Ap	BWBSwk1	BWBSwk1 0 RZ	?	n	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	6.48
1226	614	614a	8Cvka-F 2Fp-LU	BWBSwk1	BWBSwk1 101 101	5	4	99	SMU-C2	C5_B.g	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	11.49
1227	614	614b	8Cvka-F 2Fp-LU	BWBSwk1	BWBSwk1 101 101	3	4	-	SMU-C1	C3_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	12.01
1228	614	614c	8Cvka-F 2Fp-LU	BWBSwk1	BWBSwk1 0 RZ	5	n	4	SMU-C2	C5_B.g	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	13.80
1229	614	614d	8Cvka-F 2Fp-LU	BWBSwk1	BWBSwk1 101 101	4	4	5	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	10.29
1230	614	614e	8Cvka-F 2Fp-LU	BWBSwk1	BWBSwk1 110 110	4	5	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	7.66
1231	615	615	6OW 4Fp-U	BWBSwk1	BWBSwk1 0 Ws	99	6	6	OpWater	OW99_n	Open Water	-	-	not rated	-	2.40
1232	616	616a	6Oxv/Fp-U 4OW	BWBSwk1	BWBSwk1 0 OW	6	99	-	SMU-F2	F6_G.p	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	5.37
1233	616	616b	6Oxv/Fp-U 4OW	BWBSwk1	BWBSwk1 0 Ws	6	6	-	SMU-F2	F6_G.p	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	1.60
1234	617	617	5Rs-R 5Cvka	BWBSwk1	-	3	-	-	SMU-M1	M3_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	10.05
1235	618	618a	Mbj	BWBSwk1	BWBSwk1 110 110	5	5	-	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	4.55

Appendix 11-B. Murray River Coal Project: Summary of Acid Sensitivity by Parent Material and Ecological Rating

Sequence	Terrain Poygon ID	TEM Polygon ID	Terrain Label	BEC_variant	TEM_Label	SMR1	SMR2	SMR3	SMUgroup	Soil Mapping Unit	Texture Group	Coarse Fragments	Parent Material	Acid Sensitivity	Critical Load	Area_ha
1236	618	618b	Mbj	BWBSwk1	-	4	-	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	4.55
1237	619	619a	Cv	BWBSwk1	BWBSwk1 110 110	4	5	5	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	8.14
1238	619	619b	Cv	BWBSwk1	BWBSwk1 101 101	4	4	4	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	9.98
1239	619	619c	Cv	BWBSwk1	BWBSwk1 101 101	3	4	5	SMU-C1	C3_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	9.84
1240	619	619d	Cv	BWBSwk1	BWBSwk1 101 101	4	4	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	6.25
1241	619	619e	Cv	BWBSwk1	-	4	-	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	4.62
1242	620	620a	4Dxvk 4Cvka 2Rks-R	BWBSwk1	BWBSwk1 103 103	3	5	-	SMU-M1	M3_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	9.06
1243	620	620b	4Dxvk 4Cvka 2Rks-R	BWBSwk1	BWBSwk1 0 ES	3	-	-	SMU-M1	M3_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	4.57
1244	621	621	8Cvak 2Ff-R	BWBSwk1	BWBSwk1 101 101	5	4	5	SMU-C2	C5_B.g	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	6.84
1245	622	622	6Cvck 4Mwa	ESSFmv2	ESSFmv2 04 FO	4	4	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	11.64
1246	623	623a	Mbj-L	ESSFmv2	-	6	-	-	SMU-M2	M6_G	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	2.65
1247	623	623b	Mbj-L	ESSFmv2	-	6	-	-	SMU-M2	M6_G	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	1.66
1248	623	623c	Mbj-L	ESSFmv2	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	0.31
1249	624	624a	8Cva 2Mwj	ESSFmv2	ESSFmv2 01 FR	4	4	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	14.08
1250	624	624b	8Cva 2Mwj	BWBSwk1	BWBSwk1 101 101	4	4	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	9.06
1251	624	624c	8Cva 2Mwj	BWBSwk1	-	4	-	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	0.96
1252	624	624d	8Cva 2Mwj	ESSFmv2	ESSFmv2 01 FR	4	4	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	14.52
1253	624	624e	8Cva 2Mwj	ESSFmv2	ESSFmv2 01 FR	6	4	-	SMU-C2	C6_G	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	3.21
1254	624	624f	8Cva 2Mwj	ESSFmv2	-	4	-	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	1.53
1255	625	625a	6Mvaj 4Cvk	ESSFmv2	ESSFmv2 04 FO	4	4	4	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	9.49
1256	625	625b	6Mvaj 4Cvk	BWBSwk1	BWBSwk1 101 101	5	4	-	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	8.31
1257	625	625c	6Mvaj 4Cvk	ESSFmv2	ESSFmv2 01 FR	4	4	4	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	12.05
1258	625	625d	6Mvaj 4Cvk	ESSFmv2	ESSFmv2 04 FO	4	4	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	1.82
1259	625	625e	6Mvaj 4Cvk	ESSFmv2	ESSFmv2 04 FO	4	4	6	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	6.04
1260	625	625f	6Mvaj 4Cvk	ESSFmv2	ESSFmv2 01 FR	4	4	6	SMU-M1	M4_B.lit	mod-fine CL-SiCl	moder	Till neutral	Moderate	500 eq/ha/yr	2.77
1261	625	625g	6Mvaj 4Cvk	BWBSwk1	BWBSwk1 0 RZ	4	n	-	SMU-M1	M4_B.lit	mod-fine CL-SiCl	moder	Till neutral	Moderate	500 eq/ha/yr	1.03
1262	625	625h	6Mvaj 4Cvk	BWBSwk1	BWBSwk1 101\$ 101\$	4	4	-	SMU-M1	M4_B.lit	mod-fine CL-SiCl	moder	Till neutral	Moderate	500 eq/ha/yr	4.24
1263	626	626a	Mvb	ESSFmv2	-	4	-	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	8.19
1264	626	626b	Mvb	ESSFmv2	-	4	-	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	9.81
1265	626	626c	Mvb	ESSFmv2	ESSFmv2 0 Ws	6	6	-	SMU-M2	M6_G	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	2.23
1266	626	626d	Mvb	ESSFmv2	-	6	-	-	SMU-F2	F6_G.p	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	1.06
1267	627	627a	5Dxvk 4Cwka 1Rks-R	BWBSwk1	BWBSwk1 103\$ 103\$	3	5	-	SMU-M1	M3_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	15.06
1268	627	627b	5Dxvk 4Cwka 1Rks-R	BWBSwk1	BWBSwk1 103\$ 103\$?	5	-	SMU-R	R3_R.lit	very coarse	very high	Neutral (shale)	High	250 eq/ha/yr	2.12
1269	627	627c	5Dxvk 4Cwka 1Rks-R	BWBSwk1	BWBSwk1 103\$ 103\$	3	5	-	SMU-M1	M3_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	4.12
1270	627	627d	5Dxvk 4Cwka 1Rks-R	BWBSwk1	BWBSwk1 103\$ 103\$?	5	-	SMU-R	R3_R.lit	very coarse	very high	Neutral (shale)	High	250 eq/ha/yr	0.92
1271	628	628	Mw	BWBSwk1	BWBSwk1 110 110	4	5	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	4.17
1272	629	629	8Ff-R 2FGt	BWBSwk1	BWBSwk1 101 101	5	4	-	SMU-F2	F5_B.g	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	2.83
1273	630	630	8Mbj 2FGt	BWBSwk1	-	4	-	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	0.48
1274	631	631	Mw/Rtja	BWBSwk1	BWBSwk1 103 103	3	5	-	SMU-M1	M3_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	4.96
1275	632	632	Cvx	BWBSwk1	BWBSwk1 0 RZ	4	n	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	1.58
1276	633	633a	Fh	BWBSwk1	BWBSwk1 103 103	4	5	-	SMU-F1	F4_B	coarse S-LS	high	Fluvial	High	250 eq/ha/yr	3.10
1277	633	633b	Fh	BWBSwk1	BWBSwk1 110 110	5	5	99	SMU-F2	F5_B.g	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	3.44
1278	633	633c	Fh	BWBSwk1	BWBSwk1 110 110	4	5	-	SMU-F1	F4_B	coarse S-LS	high	Fluvial	High	250 eq/ha/yr	0.74
1279	633	633d	Fh	BWBSwk1	-	3	-	-	SMU-F1	F3_CU.R	coarse S-LS	high	Fluvial	High	250 eq/ha/yr	1.76
1280	633	633e	Fh	BWBSwk1	BWBSwk1 110 110	3	5	-	SMU-F1	F3_B	coarse S-LS	high	Fluvial	High	250 eq/ha/yr	2.47
1281	633	633f	Fh	BWBSwk1	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	1.53
1282	633	633g	Fh	BWBSwk1	-	4	-	-	SMU-F1	F4_B	coarse S-LS	high	Fluvial	High	250 eq/ha/yr	1.45
1283	633	633h	Fh	BWBSwk1	BWBSwk1 110 110	4	5	-	SMU-F1	F4_B	coarse S-LS	high	Fluvial	High	250 eq/ha/yr	2.23
1284	634	634	Cf-L	BWBSwk1	-	5	-	-	SMU-F2	F5_B.g	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	0.74
1285	635	635a	6Mvak 2Rks 2Mbu	BWBSwk1	BWBSwk1 103 103	4	5	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	4.16
1286	635	635b	6Mvak 2Rks 2Mbu	BWBSwk1	BWBSwk1 101 101	3	4	-	SMU-C1	C3_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	4.21
1287	635	635c	6Mvak 2Rks 2Mbu	BWBSwk1	-	4	-	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	2.24
1288	636	636a	7Mwa 3Mbu	ESSFmv2	ESSFmv2 04 FO	4	4	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	6.11
1289	636	636b	7Mwa 3Mbu	ESSFmv2	ESSFmv2 06 FH	4	6	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	5.48
1290	636	636c	7Mwa 3Mbu	ESSFmv2	ESSFmv2 06 FH	6	6	-	SMU-M2	M6_G	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	2.81
1291	636	636d	7Mwa 3Mbu	ESSFmv2	ESSFmv2 06 FH	4	6	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	3.60
1292	636	636e	7Mwa 3Mbu	ESSFmv2	ESSFmv2 04 FO	4	4	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	1.95
1293	637	637	Mwak	ESSFmv2	ESSFmv2 04 FO	4	4	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	3.89
1294	638	638a	Mw/Rh	ESSFmv2	ESSFmv2 01 FR	4	4	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	1.46
1295	638	638b	Mw/Rh	ESSFmv2	-	4	-	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	0.72
1296	639	639a	6Ob-U 4Ov/Fp-U	ESSFmv2	ESSFmv2 0 Ws	7	6	-	SMU-O1	O7_M.t	Organic	None	Organic	Moderate	500 eq/ha/yr	1.65
1297	639	639b	6Ob-U 4Ov/Fp-U	ESSFmv2	ESSFmv2 0 Ws	6	6	-	SMU-O2	O1M6_G.p	Organic	None	Organic	Moderate	500 eq/ha/yr	0.60
1298	640	640a	8Oxv/Fp-U 2Fp-LU	ESSFmv2	-	6	-	-	SMU-F2	F6_G.p	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	3.23
1299	640	640b	8Oxv/Fp-U 2Fp-LU	ESSFmv2	-	7	-	-	SMU-O1	O7_M.t	Organic	None	Organic	Moderate	500 eq/ha/yr	0.31
1300	641	641a	Fp-U	ESSFmv2	ESSFmv2 04 FO	5	4	6	SMU-F2	F5_B.g	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	3.09

Appendix 11-B. Murray River Coal Project: Summary of Acid Sensitivity by Parent Material and Ecological Rating

Sequence	Terrain Poygon ID	TEM Polygon ID	Terrain Label	BEC_variant	TEM_Label	SMR1	SMR2	SMR3	SMUgroup	Soil Mapping Unit	Texture Group	Coarse Fragments	Parent Material	Acid Sensitivity	Critical Load	Area_ha
1301	641	641b	Fp-U	ESSFmv2	ESSFmv2 01 FR	n	4	5	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	5.55
1302	641	641c	Fp-U	ESSFmv2	-	6	-	-	SMU-F2	F6_G.p	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	2.35
1303	641	641d	Fp-U	ESSFmv2	ESSFmv2 06 FH	4	6	-	SMU-F1	F4_B	coarse S-LS	high	Fluvial	High	250 eq/ha/yr	2.76
1304	641	641e	Fp-U	ESSFmv2	ESSFmv2 0 OW	6	99	-	SMU-F2	F6_G.p	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	1.15
1305	641	641f	Fp-U	ESSFmv2	ESSFmv2 05 FD	6	5	6	SMU-F2	F6_G.r	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	3.90
1306	641	641g	Fp-U	ESSFmv2	-	6	-	-	SMU-F2	F6_G.p	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	1.88
1307	641	641h	Fp-U	ESSFmv2	-	6	-	-	SMU-F2	F6_G.p	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	1.51
1308	641	641i	Fp-U	ESSFmv2	-	6	-	-	SMU-F2	F6_G.p	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	0.87
1309	641	641j	Fp-U	ESSFmv2	ESSFmv2 0 Ws	6	6	-	SMU-F2	F6_G.r	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	1.25
1310	641	641k	Fp-U	ESSFmv2	ESSFmv2 0 Ws	6	6	-	SMU-F2	F6_G.r	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	0.30
1311	642	642a	Cvx-R	ESSFmv2	ESSFmv2 01 FR	4	4	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	10.06
1312	642	642b	Cvx-R	ESSFmv2	-	4	-	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	2.42
1313	643	643a	5Cvka 5Mwa	ESSFmv2	ESSFmv2 04 FO	4	4	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	3.71
1314	643	643b	5Cvka 5Mwa	ESSFmv2	ESSFmv2 05 FD	4	5	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	7.36
1315	643	643c	5Cvka 5Mwa	ESSFmv2	-	4	-	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	7.08
1316	643	643d	5Cvka 5Mwa	ESSFmv2	ESSFmv2 05 FD	4	5	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	2.97
1317	643	643e	5Cvka 5Mwa	ESSFmv2	ESSFmv2 05 FD	4	5	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	1.51
1318	644	644a	7Mbj 3Mwa	ESSFmv2	ESSFmv2 04 FO	4	4	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	11.72
1319	644	644b	7Mbj 3Mwa	ESSFmv2	-	4	-	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	7.69
1320	644	644c	7Mbj 3Mwa	ESSFmv2	ESSFmv2 01 FR	4	4	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	2.50
1321	644	644d	7Mbj 3Mwa	ESSFmv2	ESSFmv2 04 FO	4	4	4	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	11.34
1322	644	644e	7Mbj 3Mwa	ESSFmv2	ESSFmv2 05 FD	5	5	-	SMU-M2	M5_B.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	8.13
1323	644	644f	7Mbj 3Mwa	ESSFmv2	-	4	-	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	3.67
1324	644	644g	7Mbj 3Mwa	ESSFmv2	ESSFmv2 04 FO	2	4	4	SMU-M1	M2_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	4.70
1325	645	645	Uk-F	ESSFmv2	ESSFmv2 01 FR	4	4	4	SMU-O2	O M5_B.g	Organic	None	Organic	Moderate	500 eq/ha/yr	6.08
1326	646	646a	Ft	ESSFmv2	ESSFmv2 01 FR	4	4	-	SMU-F1	F4_B	coarse S-LS	high	Fluvial	High	250 eq/ha/yr	6.92
1327	646	646b	Ft	ESSFmv2	-	4	-	-	SMU-F1	F4_B	coarse S-LS	high	Fluvial	High	250 eq/ha/yr	0.57
1328	646	646c	Ft	ESSFmv2	ESSFmv2 0 RZ	n	n	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	2.23
1329	646	646d	Ft	ESSFmv2	-	6	-	-	SMU-F2	F6_G	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	0.56
1330	646	646e	Ft	ESSFmv2	-	6	-	-	SMU-F2	F6_G.p	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	0.52
1331	646	646f	Ft	ESSFmv2	-	6	-	-	SMU-F2	F6_G	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	0.50
1332	647	647	7Mva 3Mbj	ESSFmv2	ESSFmv2 03 BT	4	4	-	SMU-M1	M4_B.lit	mod-fine CL-SiCl	moder	Till neutral	Moderate	500 eq/ha/yr	10.37
1333	648	648a	Mbj	BWBSwk1	BWBSwk1 110 110	4	5	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	5.36
1334	648	648b	Mbj	BWBSwk1	BWBSwk1 110 110	4	5	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	2.97
1335	648	648c	Mbj	BWBSwk1	BWBSwk1 110 110	4	5	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	3.28
1336	648	648d	Mbj	ESSFmv2	ESSFmv2 06 FH	4	6	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	11.15
1337	648	648e	Mbj	ESSFmv2	ESSFmv2 04 FO	4	4	-	SMU-M1	M4_B.lit	mod-fine CL-SiCl	moder	Till neutral	Moderate	500 eq/ha/yr	3.68
1338	648	648f	Mbj	ESSFmv2	ESSFmv2 01 FR	6	4	6	SMU-M2	M6_G	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	2.51
1339	648	648g	Mbj	ESSFmv2	-	6	-	-	SMU-M2	M6_G	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	0.87
1340	648	648h	Mbj	ESSFmv2	ESSFmv2 04 FO	6	4	-	SMU-M2	M6_G	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	2.65
1341	648	648i	Mbj	ESSFmv2	ESSFmv2 0 Ws	6	6	-	SMU-M2	M6_G	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	0.65
1342	648	648j	Mbj	ESSFmv2	ESSFmv2 05 FD	6	5	n	SMU-M2	M6_G	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	7.76
1343	648	648k	Mbj	BWBSwk1	BWBSwk1 110 110	4	5	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	1.67
1344	648	648l	Mbj	BWBSwk1	-	5	-	-	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	1.27
1345	648	648m	Mbj	BWBSwk1	BWBSwk1 101 101	5	4	5	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	5.43
1346	649	649a	Mwa	BWBSwk1	BWBSwk1 110 110	4	5	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	2.88
1347	649	649b	Mwa	BWBSwk1	BWBSwk1 110 110	4	5	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	13.59
1348	649	649c	Mwa	BWBSwk1	BWBSwk1 101 101	4	4	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	13.86
1349	649	649d	Mwa	ESSFmv2	ESSFmv2 01 FR	4	4	6	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	9.97
1350	649	649e	Mwa	ESSFmv2	-	4	-	-	SMU-M1	M4_B.lit	mod-fine CL-SiCl	moder	Till neutral	Moderate	500 eq/ha/yr	1.28
1351	649	649f	Mwa	ESSFmv2	ESSFmv2 04 FO	4	4	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	4.37
1352	649	649g	Mwa	ESSFmv2	ESSFmv2 01 FR	4	4	6	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	1.21
1353	649	649h	Mwa	ESSFmv2	ESSFmv2 01 FR	4	4	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	1.07
1354	649	649i	Mwa	BWBSwk1	BWBSwk1 110 110	4	5	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	1.89
1355	649	649j	Mwa	ESSFmv2	ESSFmv2 04 FO	4	4	6	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	17.21
1356	649	649k	Mwa	BWBSwk1	BWBSwk1 101 101	n	4	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	1.04
1357	649	649l	Mwa	BWBSwk1	BWBSwk1 110 110	4	5	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	5.64
1358	649	649m	Mwa	BWBSwk1	BWBSwk1 110 110	4	5	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	6.49
1359	649	649n	Mwa	BWBSwk1	-	4	-	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	1.05
1360	649	649o	Mwa	BWBSwk1	-	4	-	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	1.07
1361	649	649p	Mwa	ESSFmv2	ESSFmv2 01 FR	4	4	6	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	1.85
1362	650	650a	8Cwa 2Mbj	ESSFmv2	-	4	-	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	9.55
1363	650	650b	8Cwa 2Mbj	BWBSwk1	-	3	-	-	SMU-C1	C3_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	1.95
1364	651	651a	6Mbjm 2Mwa 2Mbj-L	ESSFmv2	ESSFmv2 01 FR	4	4	6	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	74.55
1365	651	651b	6Mbjm 2Mwa 2Mbj-L	ESSFmv2	ESSFmv2 01 FR	4	4	6	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	35.64

Appendix 11-B. Murray River Coal Project: Summary of Acid Sensitivity by Parent Material and Ecological Rating

Sequence	Terrain Poygon ID	TEM Polygon ID	Terrain Label	BEC_variant	TEM_Label	SMR1	SMR2	SMR3	SMUgroup	Soil Mapping Unit	Texture Group	Coarse Fragments	Parent Material	Acid Sensitivity	Critical Load	Area_ha
1366	651	651c	6Mbjm 2Mwa 2Mbj-L	ESSFmv2	ESSFmv2 06 FH	4	6	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	9.64
1367	651	651d	6Mbjm 2Mwa 2Mbj-L	ESSFmv2	ESSFmv2 06 FH	4	6	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	7.50
1368	651	651e	6Mbjm 2Mwa 2Mbj-L	ESSFmv2	ESSFmv2 04 FO	4	4	6	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	27.40
1369	651	651f	6Mbjm 2Mwa 2Mbj-L	ESSFmv2	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	3.33
1370	651	651g	6Mbjm 2Mwa 2Mbj-L	ESSFmv2	ESSFmv2 04 FO	4	4	-	SMU-M1	M4_B.lit	mod-fine CL-SiCl	moder	Till neutral	Moderate	500 eq/ha/yr	3.82
1371	651	651h	6Mbjm 2Mwa 2Mbj-L	ESSFmv2	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	1.06
1372	651	651i	6Mbjm 2Mwa 2Mbj-L	ESSFmv2	ESSFmv2 06 FH	4	6	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	36.92
1373	651	651j	6Mbjm 2Mwa 2Mbj-L	ESSFmv2	ESSFmv2 04 FO	4	4	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	11.01
1374	651	651k	6Mbjm 2Mwa 2Mbj-L	ESSFmv2	ESSFmv2 04 FO	4	4	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	18.89
1375	651	651l	6Mbjm 2Mwa 2Mbj-L	ESSFmv2	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	9.14
1376	651	651m	6Mbjm 2Mwa 2Mbj-L	ESSFmv2	ESSFmv2 01 FR	4	4	6	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	4.57
1377	651	651n	6Mbjm 2Mwa 2Mbj-L	ESSFmv2	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	1.21
1378	652	652a	Mvja	ESSFmv2	ESSFmv2 05 FD	4	5	6	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	33.19
1379	652	652b	Mvja	BWBSwk1	BWBSwk1 110 110	4	5	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	9.64
1380	652	652c	Mvja	ESSFmv2	ESSFmv2 05 FD	4	5	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	20.75
1381	652	652d	Mvja	ESSFmv2	-	4	-	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	4.78
1382	652	652e	Mvja	ESSFmv2	ESSFmv2 05 FD	4	5	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	19.00
1383	652	652f	Mvja	ESSFmv2	ESSFmv2 05 FD	4	5	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	6.45
1384	652	652g	Mvja	ESSFmv2	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	8.35
1385	653	653a	Uk-F	BWBSwk1	BWBSwk1 110 110	4	5	3	SMU-C1	C4_R	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	4.83
1386	653	653b	Uk-F	BWBSwk1	-	5	-	-	SMU-F2	F5_GLCU. R.	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	1.73
1387	654	654	Ft	BWBSwk1	-	3	-	-	SMU-F1	F3_CU.R	coarse S-LS	high	Fluvial	High	250 eq/ha/yr	0.95
1388	655	655a	Mwj	BWBSwk1	BWBSwk1 101 101	4	4	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	31.94
1389	655	655b	Mwj	BWBSwk1	BWBSwk1 110 110	4	5	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	14.21
1390	655	655c	Mwj	BWBSwk1	-	5	-	-	SMU-M2	M5_B.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	3.36
1391	655	655d	Mwj	BWBSwk1	BWBSwk1 110 110	5	5	-	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	0.99
1392	656	656	Cxvk	BWBSwk1	BWBSwk1 110 110	3	5	-	SMU-C1	C3_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	8.00
1393	657	657	Ft	BWBSwk1	-	3	-	-	SMU-F1	F3_CU.R	coarse S-LS	high	Fluvial	High	250 eq/ha/yr	2.39
1394	658	658	Mbj	BWBSwk1	-	5	-	-	SMU-M2	M5_B.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	3.28
1395	659	659a	Cvk	BWBSwk1	BWBSwk1 101 101	3	4	-	SMU-C1	C3_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	13.54
1396	659	659b	Cvk	BWBSwk1	-	3	-	-	SMU-C1	C3_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	7.61
1397	659	659c	Cvk	BWBSwk1	-	5	-	-	SMU-C2	C5_B.g	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	3.81
1398	659	659d	Cvk	BWBSwk1	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	1.99
1399	660	660	Mvk	BWBSwk1	-	4	-	-	SMU-M1	M4_B.lit	mod-fine CL-SiCl	moder	Till neutral	Moderate	500 eq/ha/yr	4.81
1400	661	661a	8Mbj 2Cvk	BWBSwk1	BWBSwk1 101 101	5	4	5	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	3.28
1401	661	661b	8Mbj 2Cvk	BWBSwk1	BWBSwk1 110 110	5	5	-	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	1.68
1402	661	661c	8Mbj 2Cvk	BWBSwk1	-	4	-	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	1.81
1403	662	662	4Dvxx 4Cvka 2Rks-R	BWBSwk1	BWBSwk1 101 101	3	4	5	SMU-M1	M3_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	18.25
1404	663	663a	Mwaj/Rt	ESSFmv2	ESSFmv2 02 FL	4	2	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	6.38
1405	663	663b	Mwaj/Rt	ESSFmv2	ESSFmv2 04 FO	4	4	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	3.51
1406	664	664a	Cvks	ESSFmv2	ESSFmv2 04 FO	4	4	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	7.86
1407	664	664b	Cvks	ESSFmv2	ESSFmv2 05 FD	4	5	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	2.73
1408	665	665a	Op-U	ESSFmv2	-	6	-	-	SMU-F2	F6_G.p	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	2.97
1409	665	665b	Op-U	ESSFmv2	-	7	-	-	SMU-O1	O7_M.t	Organic	None	Organic	Moderate	500 eq/ha/yr	3.03
1410	665	665c	Op-U	ESSFmv2	ESSFmv2 0 WS	6	6	-	SMU-O2	O1M6_G.p	Organic	None	Organic	Moderate	500 eq/ha/yr	2.64
1411	666	666a	Cbj	ESSFmv2	ESSFmv2 01 FR	4	4	-	SMU-C1	C4_BR.GL	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	42.58
1412	666	666b	Cbj	ESSFmv2	ESSFmv2 01 FR	4	4	-	SMU-C1	C4_BR.GL	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	10.01
1413	667	667	Ovx/Fp-U	ESSFmv2	-	6	-	-	SMU-F2	F6_G.p	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	2.09
1414	668	668a	Fp-U	BWBSwk1	BWBSwk1 110 110	5	5	99	SMU-F2	F5_B.g	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	8.11
1415	668	668b	Fp-U	BWBSwk1	BWBSwk1 110 110	6	5	3	SMU-F2	F6_G	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	12.51
1416	668	668c	Fp-U	BWBSwk1	BWBSwk1 111 111	5	6	-	SMU-F2	F5_B.g	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	3.61
1417	668	668d	Fp-U	BWBSwk1	BWBSwk1 101 101	5	4	-	SMU-F2	F5_B.g	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	2.72
1418	668	668e	Fp-U	BWBSwk1	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	0.56
1419	668	668f	Fp-U	BWBSwk1	BWBSwk1 110 110	5	5	99	SMU-F2	F5_B.g	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	3.34
1420	668	668g	Fp-U	BWBSwk1	BWBSwk1 0 RZ	5	n	-	SMU-F2	F5_B.g	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	1.00
1421	669	669	Ft	BWBSwk1	BWBSwk1 102 102	3	2	-	SMU-F1	F3_CU.R	coarse S-LS	high	Fluvial	High	250 eq/ha/yr	8.23
1422	670	670	Axvk	BWBSwk1	BWBSwk1 103 103	n	5	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	6.95
1423	671	671a	Mwjk	BWBSwk1	BWBSwk1 110 110	5	5	-	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	15.74
1424	671	671b	Mwjk	BWBSwk1	BWBSwk1 110 110	4	5	-	SMU-M1	M4_B.lit	mod-fine CL-SiCl	moder	Till neutral	Moderate	500 eq/ha/yr	9.77
1425	671	671c	Mwjk	BWBSwk1	BWBSwk1 110 110	4	5	-	SMU-M1	M4_B.lit	mod-fine CL-SiCl	moder	Till neutral	Moderate	500 eq/ha/yr	6.17
1426	671	671d	Mwjk	BWBSwk1	BWBSwk1 110 110	4	5	-	SMU-M1	M4_B.lit	mod-fine CL-SiCl	moder	Till neutral	Moderate	500 eq/ha/yr	2.47
1427	671	671e	Mwjk	BWBSwk1	BWBSwk1 110 110	4	5	-	SMU-M1	M4_B.lit	mod-fine CL-SiCl	moder	Till neutral	Moderate	500 eq/ha/yr	3.78
1428	671	671f	Mwjk	BWBSwk1	BWBSwk1 110 110	n	5	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	2.03
1429	672	672a	Ftf	BWBSwk1	BWBSwk1 103 103	4	5	-	SMU-F1	F4_B	coarse S-LS	high	Fluvial	High	250 eq/ha/yr	5.00
1430	672	672b	Ftf	BWBSwk1	BWBSwk1 0 RZ	5	n	-	SMU-F2	F5_B.g	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	2.64

Appendix 11-B. Murray River Coal Project: Summary of Acid Sensitivity by Parent Material and Ecological Rating

Sequence	Terrain Poygon ID	TEM Polygon ID	Terrain Label	BEC_variant	TEM_Label	SMR1	SMR2	SMR3	SMUgroup	Soil Mapping Unit	Texture Group	Coarse Fragments	Parent Material	Acid Sensitivity	Critical Load	Area_ha
1431	672	672c	Ftf	BWBSwk1	BWBSwk1 110 110	5	5	-	SMU-F2	F5_B.g	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	1.64
1432	672	672d	Ftf	BWBSwk1	BWBSwk1 0 RZ	5	n	-	SMU-F2	F5_B.g	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	1.33
1433	673	673a	Cwjk	BWBSwk1	BWBSwk1 110 110	4	5	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	6.75
1434	673	673b	Cwjk	BWBSwk1	BWBSwk1 0 RI	5	99	-	SMU-C2	C5_B.g	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	1.93
1435	673	673c	Cwjk	BWBSwk1	-	5	-	-	SMU-C2	C5_B.g	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	1.68
1436	674	674a	Mbj	BWBSwk1	BWBSwk1 110 110	4	5	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	42.61
1437	674	674b	Mbj	BWBSwk1	BWBSwk1 101 101	5	4	-	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	12.71
1438	675	675	Mbu-L	BWBSmw0	BWBSmw0 104 104	5	5	6	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	18.69
1439	676	676	Cwk	BWBSwk1	BWBSwk1 110 110	5	5	-	SMU-C2	C5_B.g	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	8.22
1440	677	677a	Mwja	BWBSwk1	BWBSwk1 110 110	4	5	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	99.23
1441	677	677b	Mwja	BWBSwk1	BWBSwk1 104 104	4	4	5	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	35.46
1442	677	677c	Mwja	BWBSwk1	BWBSwk1 110 110	4	5	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	57.42
1443	677	677d	Mwja	BWBSwk1	BWBSwk1 101 101	4	4	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	17.88
1444	677	677e	Mwja	BWBSwk1	-	4	-	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	19.65
1445	678	678	8Cwka 2Fb	BWBSwk1	BWBSwk1 101 101	5	4	-	SMU-C2	C5_B.g	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	5.12
1446	679	679a	5Ovx/Mbp-L 5Fv/Mbp	BWBSmw0	BWBSmw0 0 Ws	5	6	-	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	2.25
1447	679	679b	5Ovx/Mbp-L 5Fv/Mbp	BWBSmw0	-	6	-	-	SMU-F2	F6_G.p	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	0.83
1448	680	680a	8Mbj 2MwRta	BWBSmw0	BWBSmw0 104 104	5	5	-	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	83.40
1449	680	680b	8Mbj 2MwRta	BWBSmw0	BWBSmw0 104 104	6	5	-	SMU-M2	M6_G	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	42.17
1450	680	680c	8Mbj 2MwRta	BWBSmw0	BWBSmw0 111 111	5	6	-	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	15.59
1451	680	680d	8Mbj 2MwRta	BWBSmw0	BWBSmw0 104 104	6	5	-	SMU-M2	M6_G	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	15.07
1452	681	681a	Cwja	BWBSwk1	-	4	-	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	26.17
1453	681	681b	Cwja	BWBSwk1	BWBSwk1 101 101	4	4	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	20.23
1454	681	681c	Cwja	BWBSwk1	BWBSwk1 110 110	4	5	5	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	21.08
1455	681	681d	Cwja	BWBSwk1	BWBSwk1 101 101	5	4	-	SMU-C2	C5_B.g	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	4.62
1456	681	681e	Cwja	BWBSwk1	BWBSwk1 101 101	4	4	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	27.23
1457	681	681f	Cwja	BWBSwk1	BWBSwk1 101\$ 101\$	4	4	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	12.20
1458	681	681g	Cwja	BWBSwk1	BWBSwk1 101 101	5	4	-	SMU-C2	C5_B.g	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	3.57
1459	681	681h	Cwja	BWBSwk1	BWBSwk1 101 101	5	4	-	SMU-C2	C5_B.g	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	3.75
1460	682	682a	7Dvka 2MwRu 1Rs	BWBSwk1	BWBSwk1 102\$ 102\$?	2	-	SMU-R	R3_R.lit	very coarse	very high	Neutral (shale)	High	250 eq/ha/yr	3.18
1461	682	682b	7Dvka 2MwRu 1Rs	BWBSwk1	BWBSwk1 102\$ 102\$	3	2	3	SMU-C1	C3_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	8.75
1462	682	682c	7Dvka 2MwRu 1Rs	BWBSwk1	BWBSwk1 103 103	3	5	-	SMU-C1	C3_B.lit	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	3.22
1463	683	683a	Ovx/Mbp-L	ESSFmv2	ESSFmv2 01 FR	6	4	6	SMU-O2	O1M6_G.p	Organic	None	Organic	Moderate	500 eq/ha/yr	5.60
1464	683	683b	Ovx/Mbp-L	ESSFmv2	-	6	-	-	SMU-F2	F6_G.p	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	1.43
1465	684	684	Mbjw w-i	ESSFmv2	ESSFmv2 02 FL	4	2	4	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	8.74
1466	685	685	Mbj	BWBSmw0	-	5	-	-	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	17.32
1467	686	686	FGt	ESSFmv2	ESSFmv2 06 FH	2	6	-	SMU-FG1	FG2_B	coarse S - L	high	Glaciofluvial	High	250 eq/ha/yr	3.93
1468	687	687a	zcgFp w	BWBSwk1	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	0.16
1469	687	687b	zcgFp w	BWBSwk1	BWBSwk1 102 102	2	2	-	SMU-F1	F2_B	coarse S-LS	high	Fluvial	High	250 eq/ha/yr	2.47
1470	688	688a	7zsgFp-U 3FGt	BWBSwk1	BWBSwk1 111 111	4	6	5	SMU-F1	F4_B	coarse S-LS	high	Fluvial	High	250 eq/ha/yr	5.20
1471	688	688b	7zsgFp-U 3FGt	BWBSwk1	BWBSwk1 103 103	n	5	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	1.92
1472	688	688c	7zsgFp-U 3FGt	BWBSwk1	BWBSwk1 103\$ 103\$	3	5	-	SMU-F1	F3_CU.R	coarse S-LS	high	Fluvial	High	250 eq/ha/yr	3.15
1473	689	689a	Mbp-L	BWBSwk1	-	6	-	-	SMU-F2	F6_G.p	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	1.82
1474	689	689b	Mbp-L	BWBSwk1	BWBSwk1 111 111	5	6	6	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	0.79
1475	690	690a	8Mbj 2Mwja	BWBSwk1	BWBSwk1 101 101	4	4	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	35.81
1476	690	690b	8Mbj 2Mwja	BWBSwk1	BWBSwk1 110 110	4	5	4	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	16.14
1477	690	690c	8Mbj 2Mwja	BWBSwk1	BWBSwk1 101\$ 101\$	5	4	-	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	22.59
1478	690	690d	8Mbj 2Mwja	BWBSwk1	BWBSwk1 101 101	5	4	-	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	15.92
1479	690	690e	8Mbj 2Mwja	BWBSwk1	BWBSwk1 101 101	4	4	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	4.64
1480	690	690f	8Mbj 2Mwja	BWBSwk1	BWBSwk1 101 101	4	4	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	9.17
1481	691	691a	8Mbd 2Mv	ESSFmv2	-	6	-	-	SMU-M2	M6_G	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	2.87
1482	691	691b	8Mbd 2Mv	ESSFmv2	ESSFmv2 0 RZ	6	n	-	SMU-M2	M6_G	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	0.66
1483	692	692a	8Mwra 2Mbj	ESSFmv2	ESSFmv2 02 FL	4	2	6	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	13.75
1484	692	692b	8Mwra 2Mbj	ESSFmv2	ESSFmv2 02 FL	2	2	-	SMU-M1	M2_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	3.41
1485	692	692c	8Mwra 2Mbj	ESSFmv2	ESSFmv2 01 FR	2	4	-	SMU-M1	M2_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	5.41
1486	692	692d	8Mwra 2Mbj	ESSFmv2	ESSFmv2 01 FR	n	4	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	2.95
1487	693	693a	8Mb/Rt 2Mwa	BWBSwk1	-	4	-	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	21.24
1488	693	693b	8Mb/Rt 2Mwa	BWBSwk1	-	5	-	-	SMU-M2	M5_B.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	1.95
1489	693	693c	8Mb/Rt 2Mwa	BWBSwk1	-	4	-	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	5.12
1490	693	693d	8Mb/Rt 2Mwa	BWBSwk1	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	1.02
1491	693	693e	8Mb/Rt 2Mwa	BWBSwk1	-	4	-	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	19.33
1492	693	693f	8Mb/Rt 2Mwa	BWBSwk1	BWBSwk1 101 101	5	4	-	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	17.26
1493	694	694a	6Mbjp 4Mbj-LV	BWBSwk1	BWBSwk1 110 110	4	5	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	33.25
1494	694	694b	6Mbjp 4Mbj-LV	BWBSwk1	-	4	-	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	7.31
1495	694	694c	6Mbjp 4Mbj-LV	BWBSwk1	BWBSwk1 110 110	4	5	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	4.50

Appendix 11-B. Murray River Coal Project: Summary of Acid Sensitivity by Parent Material and Ecological Rating

Sequence	Terrain Poygon ID	TEM Polygon ID	Terrain Label	BEC_variant	TEM_Label	SMR1	SMR2	SMR3	SMUgroup	Soil Mapping Unit	Texture Group	Coarse Fragments	Parent Material	Acid Sensitivity	Critical Load	Area_ha
1496	694	694d	6Mbjp 4Mbj-LV	BWBSwk1	BWBSwk1 110 110	4	5	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	11.06
1497	694	694e	6Mbjp 4Mbj-LV	BWBSwk1	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	3.61
1498	694	694f	6Mbjp 4Mbj-LV	BWBSwk1	BWBSwk1 110 110	4	5	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	7.26
1499	694	694g	6Mbjp 4Mbj-LV	BWBSwk1	BWBSwk1 101 101	5	4	-	SMU-M2	M5_B.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	6.13
1500	694	694h	6Mbjp 4Mbj-LV	BWBSwk1	-	5	-	-	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	4.33
1501	695	695a	8Mbj-L 2Mwa	BWBSwk1	BWBSwk1 111 111	4	6	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	19.37
1502	695	695b	8Mbj-L 2Mwa	BWBSwk1	-	4	-	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	6.69
1503	695	695c	8Mbj-L 2Mwa	BWBSwk1	BWBSwk1 110 110	4	5	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	4.69
1504	695	695d	8Mbj-L 2Mwa	ESSFmv2	-	4	-	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	8.32
1505	695	695e	8Mbj-L 2Mwa	ESSFmv2	ESSFmv2 01 FR	6	4	-	SMU-M2	M6_G	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	10.21
1506	695	695f	8Mbj-L 2Mwa	ESSFmv2	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	0.57
1507	696	696a	Mwja	BWBSwk1	BWBSwk1 101\$ 101\$	4	4	5	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	9.09
1508	696	696b	Mwja	BWBSwk1	BWBSwk1 103\$ 103\$	5	5	5	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	7.24
1509	696	696c	Mwja	BWBSwk1	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	1.58
1510	697	697	FGp	BWBSwk1	BWBSwk1 103 103	n	5	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	6.04
1511	698	698	9FGt 1Cbu-Rc	ESSFmv2	ESSFmv2 04 FO	4	4	4	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	3.12
1512	699	699	Mwja	ESSFmv2	ESSFmv2 01 FR	4	4	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	2.41
1513	700	700a	8Mbu 2MvRja	ESSFmv2	ESSFmv2 01 FR	6	4	-	SMU-M2	M6_G	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	18.89
1514	700	700b	8Mbu 2MvRja	ESSFmv2	ESSFmv2 06 FH	4	6	6	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	36.59
1515	700	700c	8Mbu 2MvRja	ESSFmv2	ESSFmv2 06 FH	4	6	4	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	20.35
1516	700	700d	8Mbu 2MvRja	ESSFmv2	ESSFmv2 06 FH	4	6	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	4.33
1517	700	700e	8Mbu 2MvRja	ESSFmv2	ESSFmv2 01 FR	4	4	6	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	3.99
1518	700	700f	8Mbu 2MvRja	ESSFmv2	ESSFmv2 06 FH	4	6	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	2.42
1519	700	700g	8Mbu 2MvRja	ESSFmv2	-	6	-	-	SMU-M2	M6_G	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	0.70
1520	700	700h	8Mbu 2MvRja	ESSFmv2	-	4	-	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	1.25
1521	701	701a	7Mbuj 3MwRu	ESSFmv2	ESSFmv2 05 FD	4	5	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	3.49
1522	701	701b	7Mbuj 3MwRu	ESSFmv2	ESSFmv2 01 FR	6	4	-	SMU-M2	M6_G	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	2.17
1523	701	701c	7Mbuj 3MwRu	ESSFmv2	ESSFmv2 04 FO	4	4	6	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	5.21
1524	701	701d	7Mbuj 3MwRu	ESSFmv2	ESSFmv2 01 FR	4	4	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	15.42
1525	701	701e	7Mbuj 3MwRu	ESSFmv2	-	4	-	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	1.44
1526	701	701f	7Mbuj 3MwRu	BWBSwk1	-	3	-	-	SMU-M1	M3_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	2.70
1527	701	701g	7Mbuj 3MwRu	BWBSwk1	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	0.30
1528	701	701h	7Mbuj 3MwRu	ESSFmv2	ESSFmv2 06 FH	4	6	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	4.74
1529	702	702a	7zcsFGj 3Mbj m	BWBSmw0	BWBSmw0 103 103	3	3	4	SMU-F1	F3_CU.R	coarse S-LS	high	Fluvial	High	250 eq/ha/yr	23.33
1530	702	702b	7zcsFGj 3Mbj m	BWBSmw0	BWBSmw0 110 110	4	4	-	SMU-FG1	FG4_B	coarse S - L	high	Glaciofluvial	High	250 eq/ha/yr	2.39
1531	702	702c	7zcsFGj 3Mbj m	BWBSmw0	BWBSmw0 101 101	4	4	-	SMU-FG1	FG4_B	coarse S - L	high	Glaciofluvial	High	250 eq/ha/yr	20.68
1532	702	702d	7zcsFGj 3Mbj m	BWBSmw0	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	2.27
1533	703	703	As r	BWBSmw0	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	17.79
1534	704	704a	7hOv/zsFGv/Mbj-LW 2sFGv/Mbuj 1Obp i-v	BWBSmw0	-	4	-	-	SMU-O2	O M5_B.g	Organic	None	Organic	Moderate	500 eq/ha/yr	5.06
1535	704	704b	7hOv/zsFGv/Mbj-LW 2sFGv/Mbuj 1Obp i-v	BWBSmw0	-	4	-	-	SMU-O2	O M5_B.g	Organic	None	Organic	Moderate	500 eq/ha/yr	0.94
1536	704	704c	7hOv/zsFGv/Mbj-LW 2sFGv/Mbuj 1Obp i-v	BWBSmw0	BWBSmw0 104 104	4	5	-	SMU-M1	M4_B.lit	mod-fine CL-SiCl	moder	Till neutral	Moderate	500 eq/ha/yr	2.14
1537	704	704d	7hOv/zsFGv/Mbj-LW 2sFGv/Mbuj 1Obp i-v	BWBSmw0	-	5	-	-	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	3.11
1538	704	704e	7hOv/zsFGv/Mbj-LW 2sFGv/Mbuj 1Obp i-v	BWBSmw0	BWBSmw0 110 110	4	4	7	SMU-O2	O M5_B.g	Organic	None	Organic	Moderate	500 eq/ha/yr	3.42
1539	704	704f	7hOv/zsFGv/Mbj-LW 2sFGv/Mbuj 1Obp i-v	BWBSmw0	-	7	-	-	SMU-O1	O7_M	Organic	None	Organic	Moderate	500 eq/ha/yr	2.42
1540	705	705a	9FGv/Mu 1Cwa w-m	BWBSmw0	BWBSmw0 103 103	3	3	-	SMU-FG2	FG M3_B	coarse S - L	high	Glaciofluvial	Moderate	500 eq/ha/yr	7.06
1541	705	705b	9FGv/Mu 1Cwa w-m	BWBSmw0	BWBSmw0 103 103	3	3	-	SMU-FG2	FG M3_B	coarse S - L	high	Glaciofluvial	Moderate	500 eq/ha/yr	3.08
1542	705	705c	9FGv/Mu 1Cwa w-m	BWBSmw0	-	4	-	-	SMU-FG2	FG M4_B	coarse S - L	high	Glaciofluvial	Moderate	500 eq/ha/yr	1.25
1543	705	705d	9FGv/Mu 1Cwa w-m	BWBSmw0	BWBSmw0 103 103	3	3	-	SMU-FG1	FG3_B	coarse S - L	high	Glaciofluvial	High	250 eq/ha/yr	3.57
1544	706	706a	9Mbpu 1Ov w-p	ESSFmv2	ESSFmv2 05 FD	5	5	7	SMU-M2	M5_B.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	18.08
1545	706	706b	9Mbpu 1Ov w-p	ESSFmv2	-	4	-	-	SMU-M1	M4_B.lit	mod-fine CL-SiCl	moder	Till neutral	Moderate	500 eq/ha/yr	3.09
1546	707	707a	zcMbu m-w	BWBSwk1	-	4	-	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	19.51
1547	707	707b	zcMbu m-w	BWBSwk1	BWBSwk1 110 110	4	5	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	19.36
1548	707	707c	zcMbu m-w	BWBSwk1	BWBSwk1 103 103	5	5	-	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	7.02
1549	707	707d	zcMbu m-w	BWBSwk1	-	4	-	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	6.80
1550	707	707e	zcMbu m-w	BWBSwk1	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	1.84
1551	707	707f	zcMbu m-w	BWBSwk1	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	1.87
1552	707	707g	zcMbu m-w	BWBSwk1	BWBSwk1 0 Wb05	5	7	-	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	2.62
1553	707	707h	zcMbu m-w	BWBSwk1	-	7	-	-	SMU-O1	O7_M	Organic	None	Organic	Moderate	500 eq/ha/yr	0.17
1554	708	708	Mbpu w	BWBSmw0	BWBSmw0 101 101	3	4	3	SMU-M1	M3_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	42.40
1555	709	709a	Mbuj i-m	BWBSmw0	BWBSmw0 103 103	n	3	4	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	84.10
1556	709	709b	Mbuj i-m	BWBSmw0	BWBSmw0 104 104	5	5	-	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	10.94
1557	709	709c	Mbuj i-m	BWBSmw0	BWBSmw0 110 110	5	4	-	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	19.57
1558	709	709d	Mbuj i-m	BWBSmw0	BWBSmw0 104 104	4	5	5	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	25.51
1559	709	709e	Mbuj i-m	BWBSmw0	BWBSmw0 110 110	5	4	-	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	5.92
1560	709	709f	Mbuj i-m	BWBSmw0	BWBSmw0 0 RZ	4	n	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	4.88

Appendix 11-B. Murray River Coal Project: Summary of Acid Sensitivity by Parent Material and Ecological Rating

Sequence	Terrain Poygon ID	TEM Polygon ID	Terrain Label	BEC_variant	TEM_Label	SMR1	SMR2	SMR3	SMUgroup	Soil Mapping Unit	Texture Group	Coarse Fragments	Parent Material	Acid Sensitivity	Critical Load	Area_ha
1561	709	709g	Mbuj i-m	BWBSmw0	-	6	-	-	SMU-M2	M6_G	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	3.26
1562	709	709h	Mbuj i-m	BWBSmw0	-	6	-	-	SMU-M2	M6_G	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	2.91
1563	709	709i	Mbuj i-m	BWBSmw0	BWBSmw0 101 101	3	4	n	SMU-M1	M3_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	17.01
1564	709	709j	Mbuj i-m	BWBSmw0	-	4	-	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	6.73
1565	709	709k	Mbuj i-m	BWBSmw0	BWBSmw0 0 Wb06	6	7	-	SMU-M2	M6_G	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	27.13
1566	709	709l	Mbuj i-m	BWBSmw0	-	7	-	-	SMU-O1	O7_M	Organic	None	Organic	Moderate	500 eq/ha/yr	3.87
1567	710	710	Op v	BWBSmw0	BWBSmw0 0 Wb06	7	7	7	SMU-O2	F7_G.p	Organic	None	Organic	Moderate	500 eq/ha/yr	5.74
1568	711	711a	Mbu m-i	ESSFmv2	ESSFmv2 06 FH	4	6	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	2.61
1569	711	711b	Mbu m-i	ESSFmv2	-	4	-	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	1.65
1570	711	711c	Mbu m-i	ESSFmv2	-	4	-	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	1.16
1571	711	711d	Mbu m-i	ESSFmv2	ESSFmv2 05 FD	4	5	6	SMU-M1	M4_B.lit	mod-fine CL-SiCl	moder	Till neutral	Moderate	500 eq/ha/yr	36.03
1572	712	712	Ats r	BWBSmw0	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	76.39
1573	713	713a	8Mbj 2Mbu-L w-i	BWBSmw0	BWBSmw0 0 RZ	4	n	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	7.01
1574	713	713b	8Mbj 2Mbu-L w-i	BWBSmw0	BWBSmw0 104 104	4	5	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	4.10
1575	714	714a	8Op 2Mhu v-m	BWBSmw0	-	7	-	-	SMU-O1	O7_M	Organic	None	Organic	Moderate	500 eq/ha/yr	13.48
1576	714	714b	8Op 2Mhu v-m	BWBSmw0	BWBSmw0 0 Wb06	6	7	-	SMU-O2	O1M6_G.p	Organic	None	Organic	Moderate	500 eq/ha/yr	2.91
1577	714	714c	8Op 2Mhu v-m	BWBSmw0	BWBSmw0 0 Wm01	7	7	-	SMU-O1	O7_M	Organic	None	Organic	Moderate	500 eq/ha/yr	1.00
1578	714	714d	8Op 2Mhu v-m	BWBSmw0	BWBSmw0 0 Wm01	7	7	99	SMU-O1	O7_M	Organic	None	Organic	Moderate	500 eq/ha/yr	1.61
1579	714	714e	8Op 2Mhu v-m	BWBSmw0	-	6	-	-	SMU-O2	O1M6_G.p	Organic	None	Organic	Moderate	500 eq/ha/yr	0.42
1580	714	714f	8Op 2Mhu v-m	BWBSmw0	BWBSmw0 0 Wm01	7	7	7	SMU-O1	O7_M.t	Organic	None	Organic	Moderate	500 eq/ha/yr	1.91
1581	714	714g	8Op 2Mhu v-m	BWBSmw0	BWBSmw0 0 Wb06	6	7	-	SMU-O2	O1M6_G.p	Organic	None	Organic	Moderate	500 eq/ha/yr	2.35
1582	714	714h	8Op 2Mhu v-m	BWBSmw0	-	7	-	-	SMU-O1	O7_M	Organic	None	Organic	Moderate	500 eq/ha/yr	2.31
1583	715	715a	7Mbu 3Mbd-L w-p	ESSFmv2	ESSFmv2 06 FH	4	6	5	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	8.70
1584	715	715b	7Mbu 3Mbd-L w-p	ESSFmv2	-	4	-	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	0.77
1585	715	715c	7Mbu 3Mbd-L w-p	ESSFmv2	ESSFmv2 05 FD	4	5	6	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	0.99
1586	715	715d	7Mbu 3Mbd-L w-p	ESSFmv2	-	6	-	-	SMU-M2	M6_G	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	1.19
1587	715	715e	7Mbu 3Mbd-L w-p	ESSFmv2	ESSFmv2 01 FR	4	4	6	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	8.34
1588	716	716a	Ox//Mp p	BWBSmw0	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	1.07
1589	716	716b	Ox//Mp p	BWBSmw0	BWBSmw0 0 Wm01	7	7	99	SMU-O1	O7_M	Organic	None	Organic	Moderate	500 eq/ha/yr	0.67
1590	716	716c	Ox//Mp p	BWBSmw0	BWBSmw0 111 111	4	6	7	SMU-O2	O1M5_B.g	Organic	None	Organic	Moderate	500 eq/ha/yr	18.24
1591	716	716d	Ox//Mp p	BWBSmw0	BWBSmw0 111 111	4	6	7	SMU-O2	O1M5_B.g	Organic	None	Organic	Moderate	500 eq/ha/yr	5.92
1592	716	716e	Ox//Mp p	BWBSmw0	-	7	-	-	SMU-O1	O7_M	Organic	None	Organic	Moderate	500 eq/ha/yr	11.07
1593	717	717	7Ap w 3Mb w	BWBSmw0	-	?	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	49.06
1594	718	718a	Mbuj m-i	BWBSmw0	-	5	-	-	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	1.82
1595	718	718b	Mbuj m-i	BWBSmw0	BWBSmw0 104 104	4	5	4	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	48.46
1596	719	719a	FGvx/Mbup w-m	BWBSmw0	BWBSmw0 101 101	3	4	6	SMU-FG2	FG1M3_BR.GL	coarse S - L	high	Glaciofluvial	Moderate	500 eq/ha/yr	15.20
1597	719	719b	FGvx/Mbup w-m	BWBSmw0	-	4	-	-	SMU-FG2	FG1M4_BR.GL	coarse S - L	high	Glaciofluvial	Moderate	500 eq/ha/yr	1.02
1598	719	719c	FGvx/Mbup w-m	BWBSmw0	BWBSmw0 101 101	3	4	-	SMU-FG2	FG1M3_BR.GL	coarse S - L	high	Glaciofluvial	Moderate	500 eq/ha/yr	3.60
1599	719	719d	FGvx/Mbup w-m	BWBSmw0	BWBSmw0 103 103	3	3	-	SMU-FG2	FG1M3_BR.GL	coarse S - L	high	Glaciofluvial	Moderate	500 eq/ha/yr	3.32
1600	719	719e	FGvx/Mbup w-m	BWBSmw0	-	7	-	-	SMU-O1	O7_M	Organic	None	Organic	Moderate	500 eq/ha/yr	1.34
1601	719	719f	FGvx/Mbup w-m	BWBSmw0	-	3	-	-	SMU-FG2	FG1M3_BR.GL	coarse S - L	high	Glaciofluvial	Moderate	500 eq/ha/yr	2.10
1602	719	719g	FGvx/Mbup w-m	BWBSmw0	-	4	-	-	SMU-FG2	FG1M4_BR.GL	coarse S - L	high	Glaciofluvial	Moderate	500 eq/ha/yr	2.62
1603	719	719h	FGvx/Mbup w-m	BWBSmw0	BWBSmw0 101 101	3	4	n	SMU-FG2	FG1M3_BR.GL	coarse S - L	high	Glaciofluvial	Moderate	500 eq/ha/yr	1.80
1604	719	719i	FGvx/Mbup w-m	BWBSmw0	-	5	-	-	SMU-FG3	FG1M5_BR.GL.g	coarse S - L	high	Glaciofluvial	Moderate	500 eq/ha/yr	2.23
1605	719	719j	FGvx/Mbup w-m	BWBSmw0	BWBSmw0 0 RZ	4	n	-	SMU-FG2	FG1M4_BR.GL	coarse S - L	high	Glaciofluvial	Moderate	500 eq/ha/yr	40.76
1606	720	720a	Mbj w	ESSFmv2	ESSFmv2 04 FO	4	4	n	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	25.34
1607	720	720b	Mbj w	ESSFmv2	ESSFmv2 04 FO	4	4	-	SMU-M1	M4_B	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	16.99
1608	720	720c	Mbj w	ESSFmv2	ESSFmv2 01 FR	n	4	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	4.33
1609	721	721a	Mup i-m	BWBSmw0	BWBSmw0 104 104	5	5	-	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	4.01
1610	721	721b	Mup i-m	BWBSmw0	BWBSmw0 101 101	5	4	-	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	8.61
1611	721	721c	Mup i-m	BWBSmw0	BWBSmw0 0 ES	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	29.25
1612	721	721d	Mup i-m	BWBSmw0	BWBSmw0 110 110	5	4	-	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	24.78
1613	721	721e	Mup i-m	BWBSmw0	BWBSmw0 101 101	5	4	4	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	133.66
1614	722	722a	Fp m-w	BWBSmw0	-	4	-	-	SMU-F1	F4_GLCU. R.	coarse S-LS	high	Fluvial	High	250 eq/ha/yr	12.20
1615	722	722aa	Fp m-w	BWBSmw0	BWBSmw0 101 101	3	4	-	SMU-F1	F3_CU.R	coarse S-LS	high	Fluvial	High	250 eq/ha/yr	2.19
1616	722	722b	Fp m-w	BWBSmw0	BWBSmw0 103 103	3	3	-	SMU-F1	F3_CU.R	coarse S-LS	high	Fluvial	High	250 eq/ha/yr	15.34
1617	722	722c	Fp m-w	BWBSmw0	BWBSmw0 101 101	3	4	-	SMU-F1	F3_CU.R	coarse S-LS	high	Fluvial	High	250 eq/ha/yr	13.24
1618	722	722d	Fp m-w	BWBSmw0	-	3	-	-	SMU-F1	F3_CU.R	coarse S-LS	high	Fluvial	High	250 eq/ha/yr	1.27
1619	722	722e	Fp m-w	BWBSmw0	BWBSmw0 103 103	4	3	-	SMU-F1	F4_GLCU. R.	coarse S-LS	high	Fluvial	High	250 eq/ha/yr	11.91
1620	722	722f	Fp m-w	BWBSmw0	-	4	-	-	SMU-F1	F4_GLCU. R.	coarse S-LS	high	Fluvial	High	250 eq/ha/yr	1.17
1621	722	722g	Fp m-w	BWBSmw0	BWBSmw0 101 101	3	4	-	SMU-F1	F3_CU.R	coarse S-LS	high	Fluvial	High	250 eq/ha/yr	4.79
1622	722	722h	Fp m-w	BWBSmw0	BWBSmw0 101 101	4	4	-	SMU-F1	F4_GLCU. R.	coarse S-LS	high	Fluvial	High	250 eq/ha/yr	2.20
1623	722	722i	Fp m-w	BWBSmw0	-	4	-	-	SMU-F1	F4_GLCU. R.	coarse S-LS	high	Fluvial	High	250 eq/ha/yr	3.99
1624	722	722j	Fp m-w	BWBSmw0	BWBSmw0 111 111	3	6	-	SMU-F1	F3_CU.R	coarse S-LS	high	Fluvial	High	250 eq/ha/yr	4.23
1625	722	722k	Fp m-w	BWBSmw0	-	3	-	-	SMU-F1	F3_CU.R	coarse S-LS	high	Fluvial	High	250 eq/ha/yr	20.00

Appendix 11-B. Murray River Coal Project: Summary of Acid Sensitivity by Parent Material and Ecological Rating

Sequence	Terrain Poygon ID	TEM Polygon ID	Terrain Label	BEC_variant	TEM_Label	SMR1	SMR2	SMR3	SMUgroup	Soil Mapping Unit	Texture Group	Coarse Fragments	Parent Material	Acid Sensitivity	Critical Load	Area_ha
1626	722	722l	Fp m-w	BWBSmw0	BWBSmw0 101 101	3	4	-	SMU-F1	F3_CU.R	coarse S-LS	high	Fluvial	High	250 eq/ha/yr	20.47
1627	722	722m	Fp m-w	BWBSmw0	BWBSmw0 101 101	3	4	-	SMU-F1	F3_CU.R	coarse S-LS	high	Fluvial	High	250 eq/ha/yr	22.01
1628	722	722n	Fp m-w	BWBSmw0	BWBSmw0 112 112	6	6	-	SMU-F2	F6_G	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	14.72
1629	722	722o	Fp m-w	BWBSmw0	BWBSmw0 101 101	3	4	-	SMU-F1	F3_CU.R	coarse S-LS	high	Fluvial	High	250 eq/ha/yr	9.38
1630	722	722p	Fp m-w	BWBSmw0	BWBSmw0 110 110	6	4	-	SMU-F2	F6_G	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	2.74
1631	722	722q	Fp m-w	BWBSmw0	BWBSmw0 0 Wm01	4	7	-	SMU-F1	F4_GLCU. R.	coarse S-LS	high	Fluvial	High	250 eq/ha/yr	3.62
1632	722	722r	Fp m-w	BWBSmw0	BWBSmw0 112 112	4	6	3	SMU-F1	F4_GLCU. R.	coarse S-LS	high	Fluvial	High	250 eq/ha/yr	15.15
1633	722	722s	Fp m-w	BWBSmw0	-	5	-	-	SMU-F2	F5_R.g	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	3.36
1634	722	722t	Fp m-w	BWBSmw0	BWBSmw0 101 101	5	4	-	SMU-F2	F5_R.g	moderately course L	high	Fluvial	Moderate	500 eq/ha/yr	1.89
1635	722	722u	Fp m-w	BWBSmw0	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	6.10
1636	722	722v	Fp m-w	BWBSmw0	-	3	-	-	SMU-F1	F3_CU.R	coarse S-LS	high	Fluvial	High	250 eq/ha/yr	0.46
1637	722	722w	Fp m-w	BWBSmw0	-	3	-	-	SMU-F1	F3_CU.R	coarse S-LS	high	Fluvial	High	250 eq/ha/yr	1.41
1638	722	722x	Fp m-w	BWBSmw0	BWBSmw0 101 101	3	4	-	SMU-F1	F3_CU.R	coarse S-LS	high	Fluvial	High	250 eq/ha/yr	0.80
1639	722	722y	Fp m-w	BWBSmw0	BWBSmw0 103 103	4	3	-	SMU-F1	F4_GLCU. R.	coarse S-LS	high	Fluvial	High	250 eq/ha/yr	14.76
1640	722	722z	Fp m-w	BWBSmw0	-	3	-	-	SMU-F1	F3_CU.R	coarse S-LS	high	Fluvial	High	250 eq/ha/yr	1.05
1641	723	723a	7Cwa-V 3Mbj-L	ESSFmv2	ESSFmv2 02 FL	4	2	n	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	70.23
1642	723	723b	7Cwa-V 3Mbj-L	ESSFmv2	ESSFmv2 04 FO	4	4	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	7.15
1643	723	723c	7Cwa-V 3Mbj-L	ESSFmv2	ESSFmv2 04 FO	4	4	-	SMU-C1	C4_B	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	10.15
1644	723	723d	7Cwa-V 3Mbj-L	ESSFmv2	-	5	-	-	SMU-C2	C5_B.g	moder-fine CL	moder high 0-80	Colluvial	Moderate	500 eq/ha/yr	2.21
1645	724	724a	Mu i-m	BWBSmw0	BWBSmw0 110 110	5	4	n	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	44.11
1646	724	724b	Mu i-m	BWBSmw0	BWBSmw0 101 101	5	4	-	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	68.63
1647	724	724c	Mu i-m	BWBSmw0	BWBSmw0 104 104	4	5	4	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	65.36
1648	725	725a	Mw/Rrj w	BWBSmw0	BWBSmw0 104\$ 104\$	5	5	-	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	18.99
1649	725	725b	Mw/Rrj w	BWBSmw0	-	4	-	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	3.29
1650	725	725c	Mw/Rrj w	BWBSmw0	BWBSmw0 104 104	4	5	n	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	34.80
1651	726	726a	Mbuj w-m	BWBSmw0	BWBSmw0 101 101	6	4	-	SMU-M2	M6_G	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	31.74
1652	726	726b	Mbuj w-m	BWBSmw0	BWBSmw0 101\$ 101\$	4	4	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	8.43
1653	726	726c	Mbuj w-m	BWBSmw0	-	4	-	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	1.46
1654	726	726d	Mbuj w-m	BWBSmw0	-	6	-	-	SMU-M2	M6_G	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	4.70
1655	726	726e	Mbuj w-m	BWBSmw0	BWBSmw0 101 101	5	4	-	SMU-M2	M5_BR.GL.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	5.21
1656	726	726f	Mbuj w-m	BWBSmw0	-	6	-	-	SMU-M2	M6_G	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	2.22
1657	726	726g	Mbuj w-m	BWBSmw0	BWBSmw0 101 101	6	4	-	SMU-M2	M6_G	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	5.21
1658	726	726h	Mbuj w-m	BWBSmw0	BWBSmw0 103 103	3	3	-	SMU-M1	M3_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	6.94
1659	726	726i	Mbuj w-m	BWBSmw0	-	n	-	-	SMU-A	An_n	SiL to CL	0-75%	Anthropogenic	not rated	-	1.57
1660	726	726j	Mbuj w-m	BWBSmw0	-	4	-	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	0.55
1661	726	726k	Mbuj w-m	BWBSmw0	-	3	-	-	SMU-M1	M3_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	4.13
1662	727	727a	Mw	BWBSwk1	BWBSwk1 101\$ 101\$	4	4	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	9.20
1663	727	727b	Mw	BWBSwk1	BWBSwk1 103\$ 103\$	4	5	-	SMU-M1	M4_BR.GL	mod-fine CL-SiCl	moder	Till neutral	Low	1500 eq/ha/yr	8.19
1664	727	727c	Mw	BWBSwk1	BWBSwk1 101\$ 101\$	5	4	-	SMU-M2	M5_B.g	mod-fine SiC - CL	moder	Till neutral	Low	1500 eq/ha/yr	3.96
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