

### Appendix. Locations of each soil core, and profile data for SOC, bulk density and soil texture

<sup>1</sup>Core 3 actual measurement depth 30–35 cm. <sup>2</sup>Core 3 actual measurement depth 90–95 cm.

(LS = Loamy sand; CLS = Clay loam, sandy; SL = Sandy loam; SCL = Sandy clay loam; CL = Clay loam; LC = Light clay; LMC = Light medium clay; MC = Medium clay)

<b>138</b>	<b>Core 1</b>			<b>Core 2</b>			<b>Core 3</b>		
	-25.75246°S 147.61602°E			-25.75271°S 147.61586°E			-25.75253°S 147.61632°E		
Depth (cm)	SOC	BD	TX	SOC	BD	TX	SOC	BD	TX
0-5	0.47	1.38	LS	0.44	1.42	LS	0.69	1.40	LS
25-30	0.17	1.41	LS	0.26	1.41	LS	0.22	1.45	LS
50-55	0.11	1.46	LS	0.22	1.46	LS	0.19	1.37	LS
75-80	0.06	1.29	LS	0.06	1.41	LS	0.07	1.62	LS
100-105	0.05	1.58	LS	0.05	1.52	LS	0.15	1.73	LS
<b>144</b>	<b>Core 1</b>			<b>Core 2</b>			<b>Core 3</b>		
	-25.78902°S 147.46961°E			-25.78923°S 147.47003°E			-25.78911°S 147.47000°E		
Depth (cm)	SOC	BD	TX	SOC	BD	TX	SOC	BD	TX
0-5	1.08	1.32	LS	0.84	1.45	LS	1.08	1.28	LS
25-30	0.34	1.47	LS	0.39	1.42	LS	0.38	1.65	LS
50-55	0.17	1.56	LS	-	-	LS	0.17	1.59	LS
75-80	0.14	1.59	LS	0.13	1.38	LS	0.13	1.51	LS
100-105	0.14	1.91	LS	0.10	1.58	LS	0.13	1.40	LS
<b>124</b>	<b>Core 1</b>			<b>Core 2</b>			<b>Core 3</b>		
	-25.71653°S 147.47217°E			-25.71664°S 147.47221°E			-25.71671°S 147.47253°E		
Depth (cm)	SOC	BD	TX	SOC	BD	TX	SOC	BD	TX
0-5	0.63	1.25	LS	0.59	1.43	LS	0.96	1.18	LS
25-30	0.51	1.38	LS	0.35	1.21	LS	0.55	1.41	LS
50-55	0.20	1.06	LS	0.11	1.29	LS	0.33	1.22	LS
75-80	0.15	1.24	LS	0.32	1.22	LS	0.18	1.24	LS
100-105	0.07	1.34	LS	0.09	1.26	LS	0.19	1.27	LS
<b>81</b>	<b>Core 1</b>			<b>Core 2</b>			<b>Core 3</b>		
	-25.57208°S 147.35707°E			-25.57204°S 147.35729°E			-25.57219°S 147.35731°E		
Depth (cm)	SOC	BD	TX	SOC	BD	TX	SOC	BD	TX
0-5	0.90	1.38	LS	0.94	1.35	LS	0.82	1.46	LS
25-30	0.63	1.56	LS	0.54	1.49	LS	0.24	1.22	LS
50-55	0.24	1.57	CLS	0.32	1.68	LS	0.25	1.27	CLS
75-80	0.14	1.61	CLS	0.51	1.28	CLS	0.16	1.31	CLS
100-105	0.11	1.27	LS	0.20	1.30	LS	0.08	1.28	LS
<b>114-L</b>	<b>Core 1</b>			<b>Core 2</b>			<b>Core 3</b>		
	-25.68079°S 147.46847°E			-25.68068°S 147.46867°E			-25.68053°S 147.46861°E		
Depth (cm)	SOC	BD	TX	SOC	BD	TX	SOC	BD	TX
0-5	0.65	1.44	CLS	1.04	1.39	LS	0.68	1.46	LS
25-30	0.70	1.42	CLS	0.68	1.49	LS	0.40	1.34	LS
50-55	0.28	1.58	CLS	0.24	1.63	CLS	0.55	1.25	CLS
75-80	-	-	-	0.28	1.34	CLS	0.11	1.26	CLS
100-105	0.16	1.51	CLS	0.15	1.30	CLS	0.07	1.30	CLS
<b>111</b>	<b>Core 1</b>			<b>Core 2</b>			<b>Core 3</b>		
	-25.68032°S 147.36079°E			-25.68048°S 147.36087°E			-25.68037°S 147.36117°E		
Depth (cm)	SOC	BD	TX	SOC	BD	TX	SOC	BD	TX
0-5	2.02	1.32	CLS	1.10	1.39	CLS	0.78	1.33	CLS
25-30	0.75	1.20	CLS	0.63	1.45	CLS	0.43	1.53	CLS
50-55	0.28	1.28	CLS	0.30	1.62	LS	0.19	1.22	LS
75-80	0.14	1.55	LS	0.32	1.59	LS	0.17	1.46	LS
100-105	0.12	1.51	LS	0.31	1.59	LS	0.11	1.47	LS
<b>23</b>	<b>Core 1</b>			<b>Core 2</b>			<b>Core 3</b>		
	-25.35567°S 147.43147°E			-25.35596°S 147.43157°E			-25.35564°S 147.43173°E		
Depth (cm)	SOC	BD	TX	SOC	BD	TX	SOC	BD	TX

0-5	1.56	1.22	SCL	1.28	1.37	SCL	1.11	1.39	SCL
25-30	0.85	1.48	SCL	0.63	1.56	SCL	0.39	1.65	SCL
50-55	0.56	1.24	SCL	0.66	1.65	SCL	-	-	-
75-80	0.46	1.62	SCL	0.31	1.61	SL	0.23	1.45	SCL
100-105	0.20	1.13	SCL	0.20	1.61	SL	0.43	1.66	SCL
<b>58</b>	<b>Core 1</b> -25.46362°S 147.61850°E			<b>Core 2</b> -25.46348°S 147.61860°E			<b>Core 3</b> -25.46355°S 147.61886°E		
Depth (cm)	SOC	BD	TX	SOC	BD	TX	SOC	BD	TX
0-5	2.34	1.40	LC	2.23	1.25	LC	2.37	1.45	LC
25-30	0.82	1.67	LC	0.94	1.34	LC	0.83	1.63	LC
50-55	0.51	1.55	CL	-	-	-	0.74	1.46	LC
75-80	0.45	1.50	CL	-	-	-	-	-	-
100-105	-	-	-	-	-	-	-	-	-
<b>142</b>	<b>Core 1</b> -25.78913°S 147.39912°E			<b>Core 2</b> -25.78911°S 147.39942°E			<b>Core 3</b> -25.78923°S 147.39946°E		
Depth (cm)	SOC	BD	TX	SOC	BD	TX	SOC	BD	TX
0-5	2.94	1.24	SCL	2.28	1.37	SCL	2.01	1.37	LC
25-30	0.54	1.39	SCL	0.91	1.46	SCL	0.77	1.44	LC
50-55	0.35	1.12	SCL	0.70	1.59	SCL	0.70	1.57	LC
75-80	0.36	1.76	SCL	0.41	1.62	LC	0.47	1.76	LC
100-105	0.32	1.65	SCL	0.34	1.74	LC	0.30	1.33	LC
<b>142-Ch</b>	<b>Core 1</b> -25.78876°S 147.39508°E			<b>Core 2</b> -25.78867°S 147.39538°E			<b>Core 3</b> -25.78872°S 147.39548°E		
Depth (cm)	SOC	BD	TX	SOC	BD	TX	SOC	BD	TX
0-5	1.32	1.56	LS	1.54	1.37	SCL	1.61	1.45	SCL
25-30	1.35	1.48	LS	1.45	1.44	SCL	-	-	-
50-55	0.85	1.24	LC	1.09	1.81	LC	1.02	1.53	LC
75-80	0.54	1.38	LC	0.34	1.61	LC	0.71	1.73	LC
100-105	0.24	1.70	SCL	0.20	1.44	SCL	0.14	1.58	SCL
<b>148</b>	<b>Core 1</b> -25.78791°S 147.61590°E			<b>Core 2</b> -25.78780°S 147.61610°E			<b>Core 3</b> -25.78791°S 147.61622°E		
Depth (cm)	SOC	BD	TX	SOC	BD	TX	SOC	BD	TX
0-5	1.94	1.25	CL	2.08	1.41	CL	3.03	1.17	CL
25-30	1.55	1.54	CL	1.98	1.46	CL	1.67	1.54	LC
50-55	0.78	1.67	LC	0.50	1.37	LC	0.56	1.46	LC
75-80	0.98	1.75	LC	0.36	1.55	LC	-	-	-
100-105	0.43	1.69	LC	0.32	1.72	LC	-	-	-
<b>131-SI</b>	<b>Core 1</b> -25.75289°S 147.36127°E			<b>Core 2</b> -25.75294°S 147.36167°E			<b>Core 3</b> -25.75285°S 147.36161°E		
Depth (cm)	SOC	BD	TX	SOC	BD	TX	SOC	BD	TX
0-5	3.75	1.32	LC	1.53	1.31	MC	2.51	1.56	MC
25-30	1.31	1.23	LC	1.37	1.42	MC	1.83	1.68	MC
50-55	1.55	1.63	LC	0.62	1.45	LC	1.47	1.82	LC
75-80	0.45	1.58	SCL	0.78	1.80	LC	0.35	1.64	SCL
100-105	0.19	1.52	SCL	0.31	1.62	LC	0.18	1.64	SCL
<b>59-Ch</b>	<b>Core 1</b> -25.46382°S 147.65455°E			<b>Core 2</b> -25.46380°S 147.65463°E			<b>Core 3</b> -25.46378°S 147.65457°E		
Depth (cm)	SOC	BD	TX	SOC	BD	TX	SOC	BD	TX
0-5	2.78	1.47	CL	2.00	1.38	CL	2.30	1.17	LC
25-30	1.91	1.63	CL	1.52	1.37	CL	1.51	1.38	LC
50-55	1.22	1.34	LC	0.93	1.63	LC	1.37	1.44	LMC
75-80	-	-	-	-	-	-	0.37	1.65	LMC
100-105 <sup>2</sup>	-	-	-	-	-	-	0.50	1.27	LC
<b>131-StR</b>	<b>Core 1</b> -25.75359°S 147.36041°E			<b>Core 2</b> -25.75357°S 147.36043°E			<b>Core 3</b> -25.75360°S 147.36047°E		
Depth (cm)	SOC	BD	TX	SOC	BD	TX	SOC	BD	TX
0-5	2.45	1.11	LMC	2.27	1.20	LMC	2.15	1.43	LC

25-30	1.34	1.48	LMC	2.22	1.63	LC	1.67	1.57	LC
50-55	-	-	-	1.40	1.68	LC	1.30	1.35	LMC
75-80	-	-	-	1.24	1.72	LC	1.18	1.74	LMC
100-105	-	-	-	-	-	-	0.43	1.69	CLS