APPENDIX II.

ANALYTICAL DATA FOR REPRESENTATIVE PROFILES.

SYMBOLS USED : S, sand ; LS, loamy sand ; ClS, clayey sand ; SL, sandy loam ; CL, clay loam ; SCL, sandy clay loam ; FSCL, fine sandy clay loam ; VFSCL, very fine sandy clay loam ; SiCL, silty clay loam ; SC, sandy clay ; VFSC, very fine sandy clay ; SiC, silty clay ; LC, light clay ; MC, medium clay ; HC, heavy clay ; E.C., electrical conductivity ; *, visible gypsum present. A blank space indicates that the analysis has not been done. A dash indicates that only a trace or none of the constituent is present.

Analyses are based on the oven-dry weight of soil.

Depth	Field Texture	pH	Moisture 15 Atmosphere	Gravel ($CaCO_3$)	Particle Size: Coarse Sand	Particle Size: Fine Sand	Particle Size: Silt	Particle Size: Clay	Loss on Acid Treatment	Calcium Carbonate (CO_3 x 1·67)	Soluble Salts (E.C. mho/cm x 340)	Sodium Chloride (Cl x 1·65)	Nitrogen	Organic Carbon	Exchangeable Cations (m.e.%—milliequivalents per 100 g of soil; %—percentage of cation exchange capacity): H m.e.	H %	Ca m.e.	Ca %	Mg m.e.	Mg %	K m.e.	K %	Na m.e.	Na %	Cation Exchange Capacity	Sample No.
in.			%	%	%	%	%	%	%	%	%	%	%	%	m.e. %	%	m.e. %	%	m.e. %	%	m.e. %	%	m.e. %	%	m.e. %	
TRESCO IRRIGATION DISTRICT — BOGA CLAY LOAM : PROFILE 33—MAP 4																										
0–6	SCL	8·0	12·8	—	23	33	7	34	2·5		1·37	0·98	0·07	0·81												28162
6–13	LC	8·3	24·4	—	14	20	5	56	5·1	7·3	2·11	1·82	0·06	0·61												28163
13–29	LC	8·8	21·1	0·9	10	18	4	43	25·3	20·7	1·97	1·82														28164
29–34	LC	8·9		1·6	8	16	4	36	36·2	32·4	1·61	1·43														28166
34–43	LC	8·9		3·8	8	15	4	38	34·0	30·6	1·56	1·36														28167
43–68	MC	8·8		22·0	12	18	6	44	21·2	18·2	1·65	1·54														28168
68–81	MC	8·8		0·8	23	20	4	47	5·8		1·53	1·37														28169
MYSTIC PARK IRRIGATION AREA — BOGA CLAY LOAM : PROFILE 37—MAP 10																										
0–10	LC	9·2	26·5	—	5	24	9	61	3·4	0·2	0·14	0·07	0·09	0·85	—	—	11·3	35	10·8	33	2·4	7	8·0	25	32·5	23649
10–22	LC	9·3	26·5	4·5	3	18	6	66	7·2	3·1	0·41	0·19	0·04	0·31	—	—	9·3	25	13·0	35	2·5	7	12·2	33	37·0	23650
22–36	MC	9·1		2·1	3	14	8	67	10·7	6·4	0·51	0·25			—	—	7·7	21	13·9	38	2·4	7	12·5	34	36·5	23651
36–60	MC	9·3		2·2	3	11	8	64	16·4	12·6	0·48	0·24														23652
60–84	MC	9·2		2·5	3	10	7	63	17·3	14·1	0·53	0·31														23653
MYSTIC PARK IRRIGATION AREA — DELLA CLAY : PROFILE 38—MAP 10																										
0–1	CL	8·1	12·3	—	16	40	14	26	2·0		0·05	0·02														19669
1–4	MC	8·6	16·1	—	15	25	6	52	3·3		0·18	0·12	0·07	0·69	—	—	9·8	37	7·7	30	2·6	10	6·1	23	26·2	19670
4–11	MC	8·6	25·0	2·0	7	16	5	69	4·0	0·1	1·01	0·78	0·06	0·44												19671
11–22	MC	8·9	24·5	8·1	10	17	6	65	7·0	2·8	1·05	0·80			—	—	4·5	13	13·7	41	2·5	7	13·1	39	33·8	19672
30–39	MC	8·8		3·3	12	20	3	61	4·9	1·2	1·07	0·78			—	—	3·6	12	13·0	41	1·9	6	13·0	41	31·5	19673
39–54	MC	8·9		1·9	12	19	4	62	4·4	1·3	1·09	0·79														19674
54–60	MC	8·9		0·5	5	17	5	68	6·2		1·13	0·82														19675
MYSTIC PARK IRRIGATION AREA — DELLA CLAY : PROFILE 40—MAP 10																										
0–4	MC	8·3	20·2	—	1	26	15	54	2·8		0·07	0·03	0·17	1·74												19677
4–24	HC	9·4	33·2	—	—	13	11	74	4·2	0·8	0·21	0·05	0·07	0·53												19678
24–40	MC	8·9		3·2	—	11	12	73	5·6	2·6	*	0·06														19679
40–56	MC	9·2		2·3	—	12	16	66	6·4	3·4	*	0·10														19680
60–84	MC	9·2		—	—	11	19	65	5·7	3·2	*	0·19														19681
SWAN HILL IRRIGATION AREA — DONNINGTON CLAY: PROFILE 21—MAP 7A																										
0–5	MC	7·8	23·0	—	8	25	11	52	2·9		0·21	0·13	0·22	2·32												28147
5–22	MC	7·7	28·2	—	6	23	7	61	3·3	0·1	0·33	0·22	0·06	0·45												28148
22–42	MC	8·3		0·9	4	16	11	65	3·8	0·5	0·40	0·27														28149
42–72	MC	8·6		2·2	5	16	11	65	3·6	1·6	0·34	0·19														28150
FISH POINT IRRIGATION AREA — DONNINGTON CLAY : PROFILE 25—MAP 9																										
1–5	LC	7·6	24·1	—	5	18	12	54	4·1		0·60	0·44	0·28	2·89												23627
5–10	LC	7·9	18·7	—	3	29	17	45	2·9		0·56	0·41	0·09	0·99												23628
10–20	MC	8·0	26·6	—	1	18	9	70	4·1	0·1	0·87	0·63	0·07	0·53												23629
20–29	MC	8·3		—	5	12	14	66	5·1	0·6	0·96	0·70														23630
29–46	MC	8·5		7·3	1	15	12	66	6·4	2·1	0·90	0·64														23631
46–60	MC	8·7		—	1	10	15	67	7·5	2·2	0·80	0·56														23632
60–84	MC	8·5		—	—	9	20	68	4·8	0·8	0·99	0·72														23633

FISH POINT IRRIGATION AREA											Fish Point Clay : Profile 24—Map 9																
0–10	MC	8·4	25·0	—	4	26	12	55	3·1		0·20	0·09	0·11	1·02													23634
10–16	MC	8·6	27·7	—	2	21	13	61	3·2		0·41	0·16	0·06	0·36													23635
16–32	MC	7·8		—	1	17	15	61	6·6	0·1	*	0·15															23636
32–66	MC	8·5		—	1	22	24	48	5·4	2·0	*	0·06															23637
66–84	MC	8·0		—	2	13	22	58	5·8	0·1	*	0·08															23638
MYSTIC PARK IRRIGATION AREA											Kunat Sandy Clay Loam : Profile 36—Map 10																
0–5	FSCL	8·4	8·8	—	27	42	6	22	1·8		0·04	0·01	0·09	0·53													1968
5–12	MC	9·3	21·8	—	17	29	4	41	8·7	6·4	0·18	0·08	0·06	0·53													19687
12–20	LC	9·4	23·1	2·2	11	20	3	45	21·3	17·6	0·33	0·17															19688
20–40	LC	9·6		5·8	14	20	4	45	17·4	15·1	0·36	0·17															19689
40–62	MC	9·7		10·0	19	18	5	38	19·8	18·3	0·29	0·11															19690
66–80	MC	9·5		—	23	21	8	41	6·5	5·6	0·31	0·14															19691
90–102		6·0									0·34	0·18															19692
FISH POINT IRRIGATION AREA											Lake Baker Clay : Profile 22—Map 7a																
0–8	LC	7·1	32·4	—	6	14	13	57	4·4		0·13	0·08	0·66	5·94													23622
8–15	MC	7·6	22·5	—	10	17	12	58	2·6		0·15	0·10	0·16	1·40													23623
15–32	MC	8·0		—	12	14	8	64	2·6	0·7	0·24	0·14															23624
32–48	MC	8·5		2·0	8	16	8	64	4·5	1·5	0·26	0·15															23625
48–84	MC	8·7		1·7	9	12	9	63	7·4	4·4	0·26	0·15															23626
MYSTIC PARK IRRIGATION AREA											Meran Sandy Clay Loam : Profile 39—Map 10																
0–1	LC	7·3	11·6	—	16	39	5	38	2·0		0·58	0·45															19682
1–5	MC	7·4	20·2	—	9	23	7	58	3·7		1·66	1·41	0·08	0·76													19683
5–19	HC	8·5	26·2	0·9	4	17	6	69	4·7	0·6	*	1·10	0·05	0·31													19684
19–36	HC	8·2		3·2	6	19	5	57	13·5	5·5	*	1·20															19685
NYAH IRRIGATION DISTRICT											Murrawee Sand : Profile 5—Map 2																
0–15	SL	7·8	3·0	—	51	37	3	8	0·6		0·01	—	0·04	0·37	0·9	13	4·6	67	1·0	14	0·3	5	0·1	1	6·9		19624
15–22	SCL	8·7	8·8	—	42	33	3	20	1·6	0·1	0·04	0·01	0·03	0·14	—	—	8·1	63	3·5	27	1·0	8	0·3	2	12·9		19625
22–36	SCL	9·2		—	33	31	3	22	10·3	8·7	0·04	0·01															19626
36–54	SCL	9·7		—	33	32	3	22	11·0	9·7	0·08	0·01			—	—	4·9	30	6·9	42	2·5	16	2·0	12	16·3		19627
54–74	SC	10·0		—	37	30	3	19	10·2	9·1	0·09	0·01															19628
74–84	SC	10·0		—	28	24	3	21	24·4	23·1	0·14	0·01															19629
SWAN HILL IRRIGATION AREA											Murrawee Sand : Profile 19—Map 8																
0–6	LS	8·4	3·1	—	57	31	4	8	0·7	0·1	0·03	—	0·06	0·62	—	—	5·2	73	1·0	14	0·8	12	0·1	1	7·1		26197
6–14	LS	8·7		—	56	33	4	7	0·6		0·03	0·02	0·03	0·27													26198
14–24	SCL	9·3	10·4	—	43	25	2	28	0·8		0·14	0·07			—	—	4·9	31	6·4	41	0·6	4	3·7	24	15·6		26199
24–30	SC	9·8	16·4	—	33	22	3	42	1·7	0·5	0·19	0·08															26200
30–47	SCL	10·0		—	26	18	3	29	23·7	21·0	0·14	0·03			—	—	4·7	26	7·1	40	1·1	6	4·9	28	17·8		26201
47–60	SCL	9·9		7·8	30	22	2	27	19·0	17·3	0·12	0·02															26202
60–84	SCL	9·9		4·3	30	23	2	28	17·4	14·0	0·13	0·02															26203
TRESCO IRRIGATION DISTRICT											Murrawee Sand : Profile 29—Map 4																
0–6	LS	8·1	3·3	—	54	36	1	7	0·5		0·02	0·01	0·09	0·91													20656
6–14	SCL	9·0	7·3	—	46	33	1	18	1·5	0·9	0·04	0·01	0·03	0·24													20657
14–42	SC	9·1	11·7	5·2	32	31	2	32	5·2	4·2	0·09	0·04															20658
42–66	SCL	9·2		1·2	27	37	1	19	16·9	15·3	0·05	0·01															20659
66–78	SL	9·2		3·8	35	44	2	17	3·8		0·05	0·01															20660
LONG LAKE SETTLEMENT											Murrawee Sand, Deep Surface Variant : Profile 27—Map 5																
0–16	LS	7·7	3·3	—	58	35	3	4	0·5		0·02	—	0·04	0·52													20666
16–28	S	9·1	2·8	—	58	34	2	7	1·2		0·03	—	0·03	0·18													20667
28–33	SL	9·2	5·7	—	53	30	2	15	1·3	0·4	0·04	0·01															20668
33–44	SC	9·3		—	41	25	2	30	3·4	2·5	0·06	0·01															20669
44–72	SCL	9·5		4·9	32	25	2	24	17·8	16·7	0·07	0·02															20670
NYAH IRRIGATION DISTRICT											Murrawee Sandy Loam : Profile 4—Map 2																
0–9	SCL	8·6	9·2	—	30	36	7	23	2·3		0·04	0·01	0·09	0·93													19657
9–15	SC	8·6	12·5	—	28	30	5	34	1·7		0·02	0·01	0·04	0·35													19658
15–20	LC	8·8	17·4	—	25	23	5	47	2·9	0·3	0·07	0·01															19659
20–30	LC	9·2		—	25	20	3	46	7·6	4·6	0·08	0·01															19660
30–38	LC	9·4		—	17	19	3	47	14·6	12·0	0·10	0·01															19661
38–50	SC	9·4		15·0	19	20	5	43	14·5	12·1	0·10	0·01															19662
50–66	SC	9·6		12·0	17	20	4	37	23·1		0·11	0·01															19663
66–80	SC	9·6		5·7	16	21	5	42	17·3		0·12	0·01															19664
NYAH IRRIGATION DISTRICT											Murrawee Sandy Loam : Profile 8—Map 3																
0–4	SL	8·8	11·1	—	31	35	9	21	2·8		0·05	0·01	0·12	1·26													19636
4–8	SCL	8·5	10·7	—	34	34	9	23	2·0		0·04	0·01															19637
8–19	LC	9·2	17·8	—	27	26	8	37	4·1	2·4	0·10	0·02	0·05	0·42													19638
19–36	LC	9·6		0·1	20	24	4	33	20·3	17·7	0·15	0·04															19639
36–54	MC	9·7		5·0	21	23	5	32	20·9	18·8	0·16	0·03															19640
54–72	MC	9·7		0·9	19	21	5	32	25·6	23·9	0·17	0·03															19641
72–84	MC	9·7		0·9	17	19	4	29	23·0		0·15	0·03															19642

APPENDIX II.—*continued.*

ANALYTICAL DATA FOR REPRESENTATIVE PROFILES—*continued.*

Depth	Field Texture	pH	Moisture 15 Atmosphere	Gravel ($CaCO_3$)	Particle Size: Coarse Sand	Particle Size: Fine Sand	Particle Size: Silt	Particle Size: Clay	Loss on Acid Treatment	Calcium Carbonate (CO_3 x 1·67)	Soluble Salts (E.C. mho/cm x 340)	Sodium Chloride (Cl x 1·65)	Nitrogen	Organic Carbon	Exchangeable Cations (m.e.%—milliequivalents per 100 g of soil; %—percentage of cation exchange capacity): H m.e.%	H %	Ca m.e.%	Ca %	Mg m.e.%	Mg %	K m.e.%	K %	Na m.e.%	Na %	Cation Exchange Capacity	Sample No.
in.			%	%	%	%	%	%	%	%	%	%	%	%	m.e.%	%	m.e.%	%	m.e.%	%	m.e.%	%	m.e.%	%	m.e.%	
SWAN HILL IRRIGATION AREA — MURRAWEE SANDY LOAM: PROFILE 11—MAP 8																										
0–3	SL	8·9	5·2	—	50	30	5	14	0·8	—	0·02	0·01	0·09	1·12	—	—	7·8	71	1·5	14	1·5	14	0·1	1	10·9	26168
3–13	SCL	8·7	7·5	—	46	27	5	21	1·4	0·2	0·03	—	0·05	0·62	—	—	11·5	72	2·8	18	1·4	9	0·2	1	15·9	26169
13–18	SC	8·9		—	39	25	4	28	4·1	2·8	0·03	0·01														26170
18–33	SC	9·8	13·8	—	29	21	4	32	14·8	16·6	0·10	0·02			—	—	7·7	40	7·3	37	1·2	6	3·3	17	19·5	26171
33–43	SC	10·0		—	22	20	3	30	25·6	19·5	0·20	0·07														26172
43–63	SC	9·9		10·2	21	21	2	27	28·1	26·4	0·18	0·12			—	—	3·8	21	6·8	38	1·4	8	5·8	33	17·8	26173
63–78	SC	9·6		2·0	23	21	—	29	26·9	26·4	0·33	0·18														26174
78–96	SC	9·5		—	26	25	2	34	15·6		0·35	0·21														26175
TRESCO IRRIGATION DISTRICT — MURRAWEE SANDY LOAM: PROFILE 30—MAP 4																										
0–8	SCL	8·8	7·2	—	46	30	4	19	1·6	0·4	0·04	0·01	0·07	0·83	—	—	8·6	59	4·4	30	1·2	8	0·5	3	14·7	20651
8–24	SC	9·1	13·2	—	29	24	3	34	9·2	8·3	0·06	0·02	0·05	0·34	—	—	10·2	50	7·6	38	1·2	6	1·2	6	20·2	20652
24–42	SC	9·4	11·3	12·8	28	21	1	29	22·3	21·4	0·08	0·03			—	—	6·3	38	7·6	46	1·1	7	1·6	9	16·6	20653
42–64	SC	9·6		9·3	24	20	3	27	27·1	25·2	0·10	0·03			—	—	5·0	30	7·7	47	1·3	8	2·4	15	16·4	20654
64–78	SC	9·7		5·5	24	23	4	33	19·6		0·11	0·03														20655
KANGAROO LAKE SETTLEMENT — MURRAWEE SANDY LOAM: PROFILE 42—MAP 5A																										
0–9	SC	8·1	9·7	—	38	32	5	22	1·6		0·02	—	0·09	0·86												23644
9–22	SC	8·2	10·6	—	37	29	5	27	1·9		0·02	0·01	0·06	0·55												23645
22–34	SC	8·9		13·0	28	27	4	25	15·7	12·3	0·05	0·01														23646
34–60	SC	9·1		8·6	34	29	3	28	6·9	5·4	0·08	0·01														23647
60–72	ClS	9·0		0·3	53	27	1	16	2·4	1·6	0·06	0·01														23648
TRESCO IRRIGATION DISTRICT — MURRAWEE SANDY LOAM, SALINE PHASE: PROFILE 31—MAP 4																										
0–7	SL	8·0	4·2	—	46	36	6	14	1·2		0·32	0·18	0·05	0·55	1·0	10	3·1	30	3·3	33	0·8	8	1·9	19	10·1	28157
7–18	LC	8·6	17·5	0·1	25	22	3	46	4·3	3·9	1·52	1·21	0·05	0·43	—	—	3·1	12	10·7	41	2·6	10	9·5	37	25·9	28158
20–30	LC	8·8		2·4	20	22	3	47	9·1	5·0	1·68	1·66			—	—	2·9	11	10·1	38	2·5	9	11·0	42	26·5	28159
40–54	MC	8·9		12·3	17	20	5	44	15·2	12·2	1·46	1·00														28160
54–74	SC	8·9		6·6	26	20	4	33	17·4	15·2	1·27	1·05			—	—	2·9	15	7·3	38	1·7	9	7·3	38	19·2	28161
NYAH IRRIGATION DISTRICT — NYAH CLAY LOAM: PROFILE 7—MAP 3																										
0–5	LC	8·5	22·3	—	18	28	6	37	8·9	5·6	0·09	0·01	0·21	2·99												19665
5–16	LC	9·6	19·1	—	13	27	2	35	22·0	18·3	0·22	0·10	0·04	0·35												19666
16–30	MC	9·7	21·7	—	14	25	7	43	13·5	10·3	0·43	0·16														19667
30–54	MC	9·7		—	14	25	8	49	7·0	4·1	0·33	0·09														19668
SWAN HILL IRRIGATION AREA — SPEEWA CLAY: PROFILE 14—MAP 8																										
0–6	MC	7·2	22·8	—	1	20	18	56	3·7		1·20	0·90	0·14	1·37	5·0	12	22·8	53	11·2	26	1·5	4	2·1	5	42·6	28142
6–25	HC	6·0	22·3	—	1	21	18	58	1·4		0·52	0·39	0·07	0·65	8·1	24	14·6	42	9·2	27	0·9	3	1·4	4	34·2	28143
25–40	HC	7·5		—	1	21	17	58	2·0	—	0·10	0·05			5·2	16	17·2	51	9·3	28	0·7	2	1·1	3	33·5	28144
40–60	HC	8·0		—	1	22	17	58	2·1	—	0·07	0·03														28145
60–82	LC	8·6		1·1	2	21	23	53	2·1	0·53	0·10	0·03														28146
SWAN HIL IRRIGATION AREA — SWAN HILL CLAY: PROFILE 15—MAP 8																										
0–11	MC	8·2	23·5	—	2	31	15	51	2·1		0·27	0·18	0·19	1·96												26211
11–32	MC	9·0	20·9	—	1	26	16	54	1·8		0·22	0·10	0·06	0·36												26212
32–48	VFSC	9·5		—	1	29	29	39	2·8	2·2	0·15	0·05														26213
48–58	VFSC	9·4		3·3	1	34	31	31	3·4	3·4	0·14	0·04														26214
58–82	VFSCL	9·3		—	—	67	17	15	0·6		0·08	0·03														26215
SWAN HILL IRRIGATION AREA — SWAN HILL CLAY: PROFILE 20—MAP 6A																										
0–8	MC	7·6	24·8	—	2	23	19	54	2·4		0.10	0·04	0·23	2·60	6·0	17	14·9	43	10·3	30	0·8	2	2·7	8	34·7	26216
8–19	MC	8·2	20·2	—	2	27	19	49	1·8		0·12	0·06	0·08	0·72	3·9	12	12·2	39	10·6	34	0·9	3	3·8	12	31·4	26217
19–30	MC	8·2		—	1	23	21	52	4·0	1·4	0·60	0·10														26218
30–40	LC	8·1		—	1	21	26	46	6·5	2·9	0·93	0·09					9·8	41	8·7	36	0·6	2	5·2	21	24·3	26219
40–72	LC	8·4		—	1	18	30	48	2·1	0·3	0·50	0·22														26220
72 84	SiC	7·8		—	—	23	31	42	1·9		0·47	0·25														26221

FISH POINT IRRIGATION AREA																										
SWAN HILL CLAY : PROFILE 23—MAP 9																										
0–7	MC	7·3	23·5	—	1	28	21	46	2·9		0·26	0·16	0·20	2·18												23617
7–22	MC	8·4	22·1	—	1	25	22	50	2·6		0·27	0·14	0·06	0·40												23618
22–36	MC	8·8		0·1	1	25	22	50	2·4		0·17	0·08														23619
36–48	LC	9·2		—	1	26	23	48	2·7	0·3	0·14	0·04														23620
84–84	LC	9·4		1·9	1	32	26	38	2·6		0·11	0·03														23621
SWAN HILL IRRIGATION AREA																										
TATCHERA SANDY LOAM : PROFILE 13—MAP 8																										
0–2	SL	8·4	7·4	—	38	30	5	16	9·5	7·6	0·21	0·17	0·10	1·04												26177
2–7	SCL	8·6		5·2	34	28	4	16	17·4	14·3	0·34	0·27	0·09	1·04												26178
7–14	SCL	8·7	10·0	49·0	30	24	3	17	25·2	22·2	0·54	0·45														26179
14–26	SCL	9·3	11·1	21·4	21	19	2	20	38·6	37·8	0·61	0·49														26180
26–39	SC	9·5		18·2	20	19	3	22	37·5	36·5	0·52	0·38														26181
39–49	SC	9·4		3·8	27	26	3	31	12·8	9·7	0·60	0·44														26182
49–78	SC	9·4		3·7	28	31	5	32	3·4	2·8	0·52	0·35														26183
78–96	SC	8·9		1·1	24	40	4	32	2·2		0·54	0·37														26184
TRESCO IRRIGATION DISTRICT																										
TATCHERA SANDY LOAM : PROFILE 32—MAP 4																										
0–6	SCL	9·2	6·6	0·9	51	25	2	13	8·5	7·0	0·05	0·01	0·08	0·93												20671
6–13	SCL	9·4	9·3	3·3	36	25	3	16	20·0	19·4	0·06	0·01	0·05	0·49												20672
13–21	SC	9·9	11·1	17·4	28	21	—	20	30·1	29·0	0·11	0·02														20673
21–48	SC	9·8	13·3	19·8	25	19	2	25	29·6	29·3	0·11	0·02														20674
48–60	SC	9·9		2·0	28	24	2	33	14·4	13·1	0·14	0·03														20675
60–72	MC	9·8		—	32	25	3	38	2·4	1·9	0·15	0·03														20676
TRESCO IRRIGATION DISTRICT																										
TATCHERA SANDY LOAM : PROFILE 35—MAP 5																										
0–6	SCL	9·1	8·8	1·1	38	28	6	17	10·2	9·1	0·04	0·01	0·08	0·99	—	—	10·5	58	5·7	31	1·2	7	0·7	4	18·1	20642
6–14	SCL	9·0	10·2	8·8	32	26	2	23	18·1	16·0	0·05	0·02	0·05	0·62												20643
14–37	SC	9·3	10·1	18·4	19	18	3	22	39·8	40·3	0·06	0·02			—	—	6·5	45	6·4	44	0·7	5	0·9	6	14·5	20644
37–48	SC	9·6		15·2	16	20	3	28	33·6	32·9	0·08	0·02														20645
48–70	MC	9·9		1·3	19	27	6	43	6·4	5·3	0·14	0·03			—	—	3·6	17	10·0	46	1·5	7	6·6	30	21·7	20646
KANGAROO LAKE SETTLEMENT																										
TATCHERA SANDY LOAM: PROFILE 41—MAP 5A																										
0–6	CL	8·9	14·9	—	17	30	7	38	8·2	4·8	0·05	0·01	0·14	1·29												23639
6–13	CL	9·0	15·2	—	14	30	6	36	15·8	12·5	0·05	0·01	0·09	0·77												23640
13–24	LC	9·2	14·2	28·0	12	26	6	29	26·9	22·8	0·06	0·01														23641
24–44	LC	9·1		8·6	10	29	5	37	18·6	15·2	0·09	0·02														23642
44–72	MC	9·5		—	7	21	10	58	4·1	1·9	0·18	0·03														23643
NYAH IRRIGATION DISTRICT																										
TATCHERA SANDY LOAM, DEEP PHASE : PROFILE 2—MAP 2																										
0–5	SCL	9·2	8·2	—	36	34	5	16	9·4	7·7	0·05	0·01	0·07	0·78	—	—	12·0	71	2·8	16	1·8	11	0·3	2	16·9	19617
5–8	SCL	9·6	11·1	—	30	30	6	22	13·4	11·4	0·06	0·01	0·03	0·27												19618
8–20	SCL	9·7	12·0	3·0	25	26	5	23	21·6	19·3	0·05	0·01			—	—	9·9	55	6·1	34	1·7	9	0·4	2	18·1	19619
20–36	SC	9·7		1·1	25	27	4	21	24·8	23·4	0·05	0·01														19620
36–54	SC	9·7		14·0	30	33	3	22	12·5	11·5	0·10	0·01			—	—	4·6	29	6·0	38	2·8	17	2·5	16	15·9	19621
54–72	SC	8·8		1·3	30	30	3	24	14·2		0·13	0·01														19622
NYAH IRRIGATION DISTRICT																										
TATCHERA SANDY LOAM, SHALLOW PHASE : PROFILE 3—MAP 2																										
0–7	SCL	8·8	11·5	0·7	24	36	7	18	14·1	11·9	0·04	0·01	0·11	1·01												19630
7–23	SCL	9·2	12·5	1·3	19	29	3	21	27·0	23·7	0·05	—	0·04	0·39												19631
23–29	SC	9·6		3·1	19	29	4	23	22·7	21·1	0·10	0·01														19632
29–34	SC	9·8		—	22	31	5	26	15·6	14·0	0·12	0·01														19633
34–48	MC	9·7		—	26	36	6	31	3·3	0·9	0·16	0·01														19634
60–72	MC	9·5		—	29	34	5	32	1·8		0·19	0·02														19635
TRESCO IRRIGATION DISTRICT																										
TATCHERA SANDY LOAM, SALINE PHASE : PROFILE 28—MAP 4																										
0–10	SCL	8·6	11·2	7·7	29	28	4	21	17·8	15·6	1·69	1·31	0·08	1·17												28170
10–15	SC	8·8	12·6	38·4	23	24	1	23	27·4	26·3	1·84	1·66	0·05	0·57												28171
15–35	SC	8·8	13·5	10·6	21	19	3	27	30·2	28·5	1·94	1·80														28172
35–54	MC	8·7		3·1	24	23	3	39	11·8	8·3	2·02	1·97														28173
NYAH IRRIGATION DISTRICT																										
TRESCO SANDY LOAM : PROFILE 9—MAP 3																										
0–5	SL	8·8	7·8	—	37	38	5	13	5·0	4·2	0·05	0·01	0·11	1·18	—	—	11·8	67	3·2	18	2·4	14	0·2	1	17·6	19643
5–17	SCL	8·8	7·3	—	38	37	4	15	4·8	3·5	0·04	0·01	0·07	0·71												19644
17–28	SCL	8·9	9·0	—	29	36	5	17	11·1	8·9	0·04	0·01			—	—	10·3	68	3·0	19	1·6	11	0·3	2	15·2	19645
28–36	SC	9·1		7·8	28	29	4	21	19·4	17·2	0·05	0·01														19646
36–54	SC	9·4		3·5	20	26	3	22	29·6	26·1	0·07	0·01			—	—	7·0	44	6·0	38	1·5	10	1·4	8	15·9	19647
54–72	SC	9·7		—	17	22	4	19	40·0	40·2	0·10	0·01														19648
72–84	SC	9·9		0·5	26	30	3	23	18·2	16·7	0·14	0·01														19649
TRESCO IRRIGATION DISTRICT																										
TRESCO SANDY LOAM : PROFILE 34—MAP 4																										
0–7	SL	9·1	4·9	—	54	30	3	11	1·9	0·8	0·04	0·01	0·07	0·90	—	—	6·7	61	3·1	29	0·8	7	0·4	3	11·0	20647
7–24	SCL	9·3	6·9	—	50	27	2	17	2·8	2·1	0·05	0·01	0·03	0·27	—	—	6·3	53	4·1	35	0·7	6	0·7	6	11·8	20648
24–50	SC	9·4		27·0	16	14	1	22	47·7	47·0	0·09	0·03			—	—	5·2	40	5·8	45	0·8	6	1·2	9	13·0	20649
50–72	MC	9·8		14·9	23	24	4	34	15·6	13·8	0·13	0·03			—	—	4·1	22	9·3	49	1·3	7	4·2	22	18·9	20650
LONG LAKE SETTLEMENT																										
TYNTYNDER SAND : PROFILE 26—MAP 5																										
0–5	S	8·7	3·1	—	53	36	3	7	1·5		0·02	—	0·05	0·51												20661
5–30	LS	9·0	3·1	—	55	35	1	8	0·7		0·02	—	0·03	0·09												20662
30–50	S	9·6		—	46	37	2	13	1·3	0·8	0·05	0·01														20663
50–63	SL	9·9		—	36	32	2	18	13·3	12·3	0·08	0·01														20664
63–72	CIS	9·9		—	39	40	2	18	1·3		0·08	0·01														20665

APPENDIX 11.—*continued.*

ANALYTICAL DATA FOR REPRESENTATIVE PROFILES—*continued.*

Depth	Field Texture	pH	Moisture 15 Atmosphere	Gravel ($CaCO_3$)	Particle Size: Coarse Sand	Particle Size: Fine Sand	Particle Size: Silt	Particle Size: Clay	Loss on Acid Treatment	Calcium Carbonate (CO_3 x 1·67)	Soluble Salts (E.C. mho/cm x 340)	Sodium Chloride (Cl x 1·65)	Nitrogen	Organic Carbon	Exchangeable Cations (m.e.%—milliequivalents per 100 g of soil; %—percentage of cation exchange capacity): H		Ca		Mg		K		Na		Cation Exchange Capacity	Sample No.
in.			%	%	%	%	%	%	%	%	%	%	%	%	m.e. %	%	m.e. %	%	m.e. %	%	m.e. %	%	m.e. %	%	m.e. %	
NYAH IRRIGATION DISTRICT — VINIFERA SANDY CLAY LOAM: PROFILE 1—MAP 2																										
0–6	LC	8·8	17·1	—	15	34	5	40	5·4	3·4	0·09	0·01	0·09	0·78												19650
6–11	MC	9·5	22·0	—	12	34	5	44	6·8	3·5	0·14	0·03	0·06	0·46												19651
11–20	MC	9·7	28·6	1·3	13	30	6	45	8·1	4·6	0·33	0·08														19652
20–36	MC	8·4		—	15	28	7	40	11·3	4·3	1·53	0·08														19653
36–50	MC	9·1		—	18	30	8	38	8·3	4·9	0·92	0·52														19654
50–68	MC	8·8		—	15	25	7	45	9·5	5·6	1·15	0·69														19655
68–84	MC	8·7		—	16	22	8	52	3·4		1·08	0·80														19656
NYAH IRRIGATION DISTRICT — VINEFERA SANDY CLAY LOAM: PROFILE 6—MAP 3																										
0–8	SCL	8·5	16·7	—	28	31	8	29	4·1	1·1	0·10	0·02	0·15	1·28	—	—	20·0	70	5·9	21	2·0	7	0·5	2	28·4	23612
8–15	MC	8·9	18·9	—	24	26	6	36	7·4	4·6	0·07	0·01	0·08	0·67	—	—	18·8	63	8·7	29	1·0	4	1·2	4	29·7	23613
15–25	LC	9·3	16·8	—	21	26	6	33	13·5	10·8	0·11	0·02														23614
25–48	MC	8·7		—	26	27	6	38	2·5	0·2	0·24	0·04			—	—	5·6	24	9·8	42	0·9	4	7·2	30	23·5	23615
48–72	MC	6·9		—	25	26	7	40	1·5		0·18	0·03														23616
SWAN HILL IRRIGATION AREA — UNIT K: PROFILE 12—MAP 8																										
0–2	SCL	8·6	6·8	—	40	34	5	19	0·7	0·2	0·03	—	0·09	0·98	—	—	9·5	65	3·2	22	1·6	11	0·3	2	14·6	26186
2–6	SCL	8·8		—	42	33	6	17	1·5		0·03	0·01	0·08	0·77												26187
6–14	MC	9·3	15·3	—	32	23	3	41	1·6	0·9	0·07	0·02			—	—	10·0	43	8·9	39	1·2	5	2·9	13	23·0	26188
14–22	MC	10·0		—	26	22	3	38	12·7	10·3	0·15	0·04														26189
22–32	MC	10·0	18·2	1·7	19	18	4	43	16·5	13·9	0·24	0·07			—	—	4·5	18	9·6	38	1·4	5	10·0	39	25·5	26190
32–49	HC	9·6		—	17	17	4	54	7·9	4·7	0·41	0·22			—	—	5·3	17	12·0	39	1·7	5	12·1	39	31·1	26191
49–66	HC	9·2		—	19	16	2	58	2·9		0·58	0·34														26193
72–84	SC	9·3		3·0	30	20	4	42	6·5		0·46	0·26														26194
SWAN HILL IRRIGATION AREA — UNIT L: PROFILE 16—MAP 8																										
0–6	SC	8·8	14·0	—	29	28	5	36	3·2	1·9	0·08	0·03	0·11	0·99												26222
6–16	MC	9·4	17·9	3·7	19	24	7	41	10·7	9·9	0·11	0·03	0·05	0·27												26223
16–28	MC	9·7	16·6	—	19	25	7	42	7·4	6·8	0·20	0·07														26224
28–48	MC	9·7		—	20	24	8	46	3·1	1·9	0·30	0·14														26225
48–63	MC	9·4		—	19	25	8	48	1·3		0·44	0·25														26226
63–84	MC	7·8		—	19	24	8	49	1·2		0·51	0·32														26227
SWAN HILL IRRIGATION AREA — TYPE 1, SHALLOW PHASE: PROFILE 10—MAP 7																										
0–5	CL	6·2	20·0	—	1	26	34	38	1·3		0·11	0·07	0·18	1·82												26162
5–17	VFSCL	6·2	15·0	—	—	38	31	29	1·0		0·19	0·13	0·08	0·59												26163
17–23	VFSCL	5·6		—	1	29	36	31	1·0		0·23	0·16														26164
23–31	LC	4·8		—	1	16	38	43	0·7		0·23	0·17														26165
31–52	HC	5·2		—	3	19	20	54	1·4		0·25	0·18														26166
52–72	HC	5·9		—	3	19	18	57	1·2		0·21	0·16														26167
SWAN HILL IRRIGATION AREA — TYPE 5: PROFILE 17—MAP 8																										
0–8	LC	8·5	14·3	—	15	30	19	34	1·7	0·2	0·11	0·03	0·21	2·11												28151
8–21	MC	9·8	20·3	3·3	8	21	30	36	5·5	3·6	0·28	0·11	0·06	0·35												28152
21–36	LC	10·0		0·2	1	9	42	47	3·9	0·2	0·42	0·19														28153
36–46	SiC	9·6		—	—	9	45	44	1·0	0·1	0·29	0·16														28154
46–66	SiC	9·2		—	1	11	48	41	0·8		0·15	0·09														28155
66–82	SiCL	8·7		0·9	—	23	38	38	1·1		0·09	0·05														28156
SWAN HILL IRRIGATION AREA — LUNETTE SOIL (UNCLASSIFIED): PROFILE 18—MAP 8																										
0–4	SL	7·7	3·2	—	38	45	6	11	0·6		0·02	—														26204
4–11	MC	8·5	19·5	—	18	19	5	56	1·9		0·29	0·22														26205
11–20	LC	8·7	18·7	—	12	20	5	56	8·6	5·3	0·95	0·77														26206
20–33	LC	8·7		—	12	20	4	53	10·2	8·4	1·04	0·84														26207
33–46	LC	8·7		—	12	18	8	55	7·2	4·6	1·05	0·81														26208
46–72	LC	8·5		—	10	17	8	61	4·8		1·18	0·82														26209
72–84	LC	8·1		—	4	15	6	66	7·6		1·84	0·90														26210