

ATTACHMENTS A TO E

Map ID Feb '14	Field Site ID	BHPB ID	Easting (m)	Northing (m)	Australian Soil Classification	Slope	Aspect	Landscape Position	Depth to rock (cm)	Depth to Waterlogged Layer (cm)	Depth to Lime (cm)	TAW (0-100 cm) mm	Surface Rock (%)	Surface Rock (mm)	Land Use	Seepage into Pits	Other comments
1	318	RPR11	248829	6530410	Brown Vertosol, FZ GS	0		lower slope			60	210			roadside native pasture		
2	319	RPR10	248882	6530796	Brown Chromosol, AT, AH	3	SW	mid-slope		35		71			roadside native pasture, box/pine regrowth		
3	325	RPR 9	248949	6531209	Clastic Rudosol, AR, HI	7	N	mid-slope	120	90		84	20	10	native pasture, box/pine trees		
4	326	RPR 8	249237	6531438	Red Chromosol, BB BD	0		lower slope			70	134			roadside native pasture		A12 has ant chambers
5	320	RPR7	249696	6531368	Yellow Chromosol, AZ BD	1	N	lower slope		40	130	92			roadside native pasture		
6	327	RPR 6	250102	6531318	Stratic Rudosol, AR	0		lower slope		90		106			roadside cypress pine		
7	328	RPR 5	250536	6531230	Clastic Rudosol, AR, HI	0		lower slope	40	40		61			roadside pine/box		
8	321	RPR4	251044	6531177	Clastic Rudosol, AR, HI	1	N	lower slope		52	80	165			roadside cypress pine		
9	324	RPR 3	251496	6531093	Clastic Rudosol, AR, HI	0		mid-slope	100	80		171	3	10	grazed cereal crop		
10	323	RPR 2	251948	6531048	Clastic Rudosol, AR, HI	3	NE	lower slope		95		74	10	20	grazed cereal crop		
11	322	RPR 1	252419	6530975	Red Chromosol, CD BD	2	NE	lower slope			65	87	10	20	weedy fallow		
12	87	CMBAB1	253389	6530386	Brown Sodosol, CV, ES	2	NE	lower slope	90		50	74	20	30	improved pasture (+Aristida sp.)		
13	86	CMAB 3	253347	6530116	Brown Dermosol, CD, CV	4	NE	lower slope		50	50	60	10	50	improved pasture (+Aristida sp.)		
14	189	SF 34A	251564	6529781	Red Kandosol, DQ, AH	10	N	upper slope	80	50		23	80	20	cypress pine forest		
15	84	CMAB2	253312	6529804	Red Dermosol, DQ, CV	5	N	mid-slope		60	100	56	20	50	improved pasture		
16	83	CMAB4	253660	6529816	Brown Dermosol, DQ, BD	5	NE	lower slope	15	60	60	85	30	50	improved pasture		
17	82	CMAB5	253984	6529802	Grey Chromosol, DQ, AH	4	NE	lower slope	85	40		50	3	40	improved pasture		
18	188	SF 1B	251738	6529295	Red Kurosol, CD, AG	1	N	crest	30			30	20	20	cypress pine forest		
19	181	SF 2A	252932	6529395	Grey Chromosol, DQ, AH	4	NW	upper slope	70	60		57	30	30	box/pine forest		
20	85	CMAB6a	253373	6529584	Brown Dermosol, CD, CV	6	N	mid-slope		30	60	54	20	100	improved pasture		
21	81	CMAB7	254006	6529485	Brown Kandosol, CD, AH	4	NE	lower slope	95			61	30	50	native pasture		
22	80	CMAB9	254194	6529125	Red Dermosol, DC, AH	7	E	lower slope	60	30		36	30	50	tall native pasture		
23	88	CMBAB8	254469	6529380	Brown Vertosol, FY, GS	2	NE	lower slope	90		15	126			improved pasture	groundwater >2.0 m (3m pit)	
24	184	SF 33A	251284	6528634	Red-Orthic Tenosol, DC, CZ	5	SW	upper slope	80	60		51	20	40	pine/box forest		
25	187	SF 3A	251998	6528917	Red Dermosol, AI, AG	5	SE	upper slope	30			38	80	20	cypress pine forest		
26	182	SF 4B	252508	6528808	Red Chromosol, CD, AH	5	N	mid-slope	100			84	30	20	pine/box forest		
27	180	SF 7A	253913	6528690	Brown Chromosol, DQ, BD	6	E	mid-slope	100	60	60	40	30	20	pine, grey box woodland		
28	75	CMAB10	254142	6528790	Grey Chromosol, DC, AG	6	E	lower slope	100	30		62			tall native pasture		
29	79	CMAB11	254555	6528703	Brown Vertosol, FM, GS	1	E	lower slope			15	210			native pasture		
30	183	SF 6C	251403	6528352	Brown Kurosol, DQ, AH	3	SW	mid-slope		40		43	30	10	pine/box forest		
31	175	SF 8a	252997	6528241	Brown Dermosol, CD, AH	9	S	upper slope	110			128			pine/ironbark forest		
32	74	CMAB12a	254094	6528457	Red Dermosol, CD, AG	7	E	lower slope				61			tall native pasture		
33	78	CMAB13	254542	6528201	Brown Vertosol, FM, GS	1	E	flat			15	210	5	5	native pasture		
34	178	SF 9	253930	6528028	Yellow Dermosol, DQ, AH	3	E	mid-slope	100	60		147			box/pine forest		
35	73	CMAB14	253977	6528022	Brown Kandosol, DC, AH	2	E	mid-slope		30		67	40	30	native pasture		
36	72	CMAB15	254260	6527856	Grey Dermosol, DQ, BD	1	E	lower slope		50	60	105			tall native pasture		
37	329	CMAB 28A	254605	6527898	Grey Vertosol, FZ GS	0		flat			40	124			improved pasture		
38	26	JBS 1	250063	6527857	Red Chromosol, EX, BD	2	SW	lower slope			60	183	10	10	cereal stubble		
39	28	JBS3	250830	6527787	Red Dermosol, AI, AH	8	SW	mid-slope	60			41			pine / ironbark woodland		
40	186	SF 10A	251578	6527748	Brown Dermosol, CD, AG	12	SW	mid-slope	60			26	50	20	pine/acacia forest		
41	185	SF 11A	252086	6527684	Brown Dermosol, CD, AH	6	SE	mid-slope	80	50		30	50	10	cypress pine forest		
42	174	SF12A	252925	6527619	Leptic Tenosol, AR, CZ	5	SW	mid-slope	45	45		66			pine/box/ironbark forest		
43	177	SF 13a	253486	6527490	Red Dermosol, CD, AH	7	SE	mid-slope	100			127			box/pine forest		A0 is water repellant
44	71	CMAB17	254172	6527441	Grey Dermosol, CD, AH	5	NE	lower slope	90	60		63	5	30	tall native pasture		
45	77	CMAB 16	254497	6527570	Black Vertosol, FM, GS	1	E	flat			15	210	5	3	native pasture		

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46	25	JBS 5	250015	6527400	Grey Vertosol, FZ, EI	0.5	W	flat			50	210	1	15	Fallow, dead weeds	groundwater >2.2 m (3m pit)	
47	24	JBS 6	250181	6527269	Black Vertosol, GM, EI	0.5	W	flat			55	210	3	10	Fallow, dead weeds	groundwater >0.95 m; EC = 12.4 dS/m	
48	27	JBS 10	250400	6527536	Brown Vertosol, FZ, GS	2	SW	lower slope			45	196	2	10	cereal stubble		shrinkage cracks to 90cm
49	29	JBS 7	250787	6527232	Brown Kandosol, DQ, BD	3	SW	lower slope	130	45	95	138	20	10	sparse cereal stubble		
50	97	CMADV 1	251068	6527497	Red Dermosol, AI, AH	7	NW	mid-slope	0	50		41	80	30	native pasture, pine, ironbark forest		
51	96	CMADV 2	251405	6527323	Brown Chromosol, AZ, AH	6	S	mid-slope	30	40		50	20	30	native pasture, partly cleared ironbark woodland		
52	172	CMADV 10a	251943	6527065	Red Chromosol, DQ, AH	7	S	mid-slope	100	70		43	70	10	recently sown wheat crop		spring 50m downhill-boggy (40m wide)
53	89	CMADV6	252615	6527279	Brown Chromosol, AZ, AH	3	SW	mid-slope		15		70			native pasture		
54	176	SF 14a	252922	6527016	Red Dermosol, DQ, AH	6	W	upper slope	90	40		92	5	10	pine/ironbark forest		
55	70	CMAB18	254129	6527058	Brown Chromosol, AZ, BD	5	SE	mid-slope		30	50	68	10	50	native pasture		
56	76	CMAB19	254540	6527023	Grey Vertosol, GM, GS	0		flat		100	30	210	10	5	native pasture		
57	330	CMAB 31	254714	6527284	Grey Vertosol, GM GS	0		flat			45	192			native pasture		
58	331	CMAB 30A	255009	6527399	Grey Vertosol, GM GS	0		flat			35	138			pugged native pasture		
59	23	JBS 11	250096	6526871	Grey Vertosol, EG, EI	1	NW	flat			60	210			fallow, no stubble	groundwater >1.1 m; EC = 21.8 dS/m	
60	22	JBS 9	250367	6526959	Black Vertosol, GM, EI	1	W	flat			70	210			fallow, no stubble	groundwater >1.6 m; EC = 18.9 dS/m	salt flakes on surface
61	30	JBS 14	250718	6526785	Brown Vertosol, GM, GS	0.5	NW	flat			65	186	1	7	cereal stubble		
62	261	CMADV13C	250986	6526892	Stratic Rudosol, AR	2	SW	lower slope			60	189	5	30	oats crop		
63	173	CMADV 14b	251289	6526883	Stratic Rudosol, AR	3	SW	lower slope		47		97			native pasture		below dam, soft/swampy
64	95	CMADV15a	251585	6526821	Red Kandosol, DQ, AH	7	S	mid-slope	0	50		27	40	30	native pasture		
65	90	CMADV17	252194	6526729	Grey Sodosol, AH, DP	3	SW	mid-slope	105	10		64			native pasture		
66	179	SF 15B	253847	6526852	Brown Chromosol, AT, AH	3	E	mid-slope		80		75	10	20	pine/ironbark/gum forest		
67	69	CMAB20	254079	6526747	Grey Dermosol, DQ, AH	5	E	lower slope		60		76	10	50	native pasture		
68	309	CMABFD2A	254393	6526862	Stratic Rudosol, BC	2	E	lower slope		85	85	94			native pasture		
69	308	CMABFD1A	254493	6526844	Grey Chromosol, DC AH	1	E	flat		70		107			native pasture		
70	68	CMAB21	254598	6526710	Black Vertosol, GB, GS	1	E	flat			10	210			cut hay		
71	310	CMA B34	254985	6526706	Black Vertosol, FM BH	0		flat			15	210			improved pasture		
72	332	CMAB 33	255349	6527006	Grey Vertosol, FZ GS	0		flat			28	161			improved pasture		
73	32	JBS16	249966	6526600	Red Dermosol, DQ, AH	5	N	mid-slope	70	40		140	70	7	sparse cereal stubble		
74	31	JBS 15	250706	6526490	Red Chromosol, DQ, AH	5	N	mid-slope		30		183	80	7	sparse cereal stubble		
75	260	CMADV19C	250952	6526627	Grey Vertosol, EX ES	0		flat				179	1	20	oats crop		
76	98	CMADV20	251251	6526571	Brown Vertosol, FZ, ES	1	SW	flat	60	50	50	141	2	50	native pasture		
77	94	CMADV21	251546	6526427	Grey Chromosol, AZ, AH	1	SW	flat		30		94	10	10	native pasture		
78	93	CMADV22B	251856	6526508	Brown Dermosol, AU, AH	0		flat	60	30		71			native pasture, Aristida sp.		
79	91	CMADV 24B	252444	6526409	Red Dermosol, CD, AH	7	NW	mid-slope		60		33	80	30	tall native pasture		
80	171	SF17A	253252	6526393	Brown Chromosol, DQ, AH	12	SW	upper slope	90	40		145			pine/ironbark forest		
81	66	CMAB22	254021	6526343	Red Kandosol, DQ, AG	6	E	upper slope		10		83			tall native pasture		gravel pit nearby
82	67	CMAB23	254468	6526353	Brown Dermosol, DQ, AH	9	E	mid-slope	100	40		91	30	20	tall native pasture		

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83	314	CMA B36	254910	6526378	Grey Vertosol, GB GS	0		flat			15	180			improved pasture		
84	315	CMA B35	255269	6526434	Black Vertosol, FZ GS	0		flat			50	162			improved pasture		
85	46	JBS 17a	249411	6526341	Grey Vertosol, GM, GS	0		flat			8	210			weedy pasture		
86	102	CMACV 26	251206	6526276	Grey Chromosol, CD, BD	0		flat	100	40	40	139			native pasture		
87	92	CMADV 29	252109	6526145	Red Dermosol, CD, AH	9	SW	mid-slope		60		38	60	30	native pasture, Aristida sp.		
88	65	CMAB24	253978	6525964	Red Kurosol, DQ, AH	5	E	upper slope		40		163			native pasture		
89	64	CMAB25	254381	6525908	Grey Sodosol, FN, AH	4	N	mid-slope	60	30		60			native pasture		
90	63	CMAB26	254637	6526089	Grey Chromosol, CD, AH	0		flat	100	70		84			native pasture		
91	313	CMA B37	255202	6526076	Black Vertosol, GB GS	0		flat			15	210			improved pasture		
92	36	JBS 22	249781	6526042	Grey Vertosol, FZ, GS	2	SW	lower slope			45	210	10	15	cereal stubble		
93	33	JBS23A	250505	6526020	Red-Orthic Tenosol, AI, CZ	1	NE	crest	60			38			native pasture		
94	101	CMADV 31B	250855	6526013	Grey Chromosol, AZ, AH	5	NE	mid-slope	80	60		39	60	20	tall native pasture		
95	103	CMADV 33a	251459	6525929	Brown Kandosol, CD, AH	3	N	lower slope		50		137			cultivated		
96	104	CMADV 36a	252405	6525784	Brown Chromosol, AZ, AH	3	S	mid-slope		30		63	30	20	cultivated		
97	170	SF21B	253388	6525678	Leptic Tenosol, AR, CZ	2	SW	crest	50			25	10	8	ironbark/pine forest		
98	273	PRD1	253950	6525739	Brown Chromosol, DQ AH	3	NE	upper slope	100	60		30	30	10	native pasture		
99	272	PRD2	254268	6525688	Red Dermosol, CD AH	5	NW	upper slope	60	60		41	20	30	tall native pasture		
100	271	PRD3	254582	6525674	Grey Chromosol, DQ AH	5	NE	mid-slope	30	60		39	20	40	native pasture		
101	62	CMAWM 27	254874	6525845	Grey Chromosol, DQ, AH	3	NE	lower slope		40		52			native pasture		
102	270	PRD10	255120	6525585	Red Dermosol, DC BD	6	E	lower slope	110	60	30	46	80	30	native pasture		
103	277	PRD9	255397	6525713	Brown Vertosol, GB GS	0		flat			15	210			improved pasture		
104	45	JBS 32	249297	6525430	Grey Vertosol, GM, GS	0.5	NW	flat			10	168			weedy pasture (fleabane, dock)		
105	37	JBS 33	249851	6525403	Black Vertosol, FZ, GS	1	SW	flat			12	210	3	15	cereal stubble		
106	35	JBS 30	250186	6525525	Brown Chromosol, DQ, BD	7	SW	mid-slope		55	22	165	60	15	sparse stubble		
107	34	JBS 27	250561	6525669	Brown Dermosol, AI, AH	7	SW	upper slope	85			87			box/ ironbark/ pine		
108	100	CMADV 38	251136	6525680	Red Dermosol, CD, BJ	4	N	upper slope	60	60		25	30	10	native pasture, mixed woodland		
109	99	CMADV 40c	251744	6525578	Red Kandosol, DC, AH	4	NW	mid-slope	60	30		53	5	50	native pasture		
110	105	CMADV 42b	252378	6525490	Grey Sodosol, AH, FN	3	NW	mid-slope	120	50		42	50	20	cultivated		
111	274	PRD4	253902	6525390	Brown Chromosol, CD AH	5	NE	mid-slope	130	60		64	20	20	tall native pasture		
112	275	PRD6	254574	6525304	Red Dermosol, CD AH	9	S	upper slope	100	60		91	30	40	tall native pasture		
113	276	PRD7	255021	6525345	Brown Chromosol, DQ AH	2	SE	lower slope	100	60		44	2	40	native pasture		
114	312	PRD11B	255419	6525347	Brown Vertosol, GB GS	0		flat		70	12	150			pugged native pasture		
115	44	JBS 39a	249463	6524827	Black Vertosol, FZ, EI	3	NW	lower slope	100		50	210			forage sorghum stubble		
116	38	JBS 41	250099	6524990	Red Chromosol, EX, BD	3	NW	lower slope		65	65	199	15	10	sparse stubble		
117	39	JBS 38a	250612	6525092	Brown Chromosol, AZ, AH	6	SW	mid-slope		60		68			native pasture		
118	163	SF 32b	250795	6525315	Brown Chromosol, CD, AH	8	SW	upper slope	80			130			pine/box forest		
119	165	SF 23a	251887	6524920	Red Dermosol, CD, AH	3	NE	upper slope	80			94	10	5	pine/ironbark forest		
120	162	SF 24	252541	6524935	Red Dermosol, AI, AH	3	W	upper slope	110			144			pine/ironbark forest		
121	169	SF 26a	253800	6525097	Red Dermosol, DQ, AH	5	N	crest	105	70		142			pine/box forest		A11, A12 water repellent
122	298	PRD5	254192	6525210	Brown Dermosol, DQ, BD	12	E	mid-slope	100	60	100	38	10	40	tall native pasture		
123	157	FUL 1a	254455	6525104	Grey Chromosol, HB, AH	4	E	mid-slope		45		61			native pasture, mixed woodland		
124	297	PRD8	254766	6525137	Grey Chromosol, AZ CV	2	E	lower slope		40	100	91	10	40	native pasture		crabhole microrelief (0.1 x 1m)
125	40	JBS 85	249777	6524553	Red Dermosol, CD, AH	1	S	crest	100			152	50	10	forage sorghum stubble		A1 water repellent
126	41	JBS48	251175	6524602	Grey-Orthic Tenosol, AI, CZ	5	SW	upper slope	65			23			native pasture		A1 water repellent
127	164	SF 29b	251449	6524441	Brown Chromosol, DQ, AH	5	W	upper slope	75	45		119			pine/box forest		

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128	168	SF 28a	253022	6524398	Red Chromosol, DQ, AH	4	NE	mid-slope	120	70		133			box/pine forest		
129	58	FUL8	253748	6524374	Red Kurosol, CD AH	6	E	upper slope	12			23			native pasture		
130	2	FUL 5	253887	6524548	Red Dermosol, DQ, AH	8	SE	upper slope	100	55		112	30	20	cultivated; scattered weeds		
131	158	FUL 2a	254044	6524823	Grey-Orthic Tenosol, AR, CZ	4	E	upper slope	70	35		47			native pasture		
132	159	FUL 3a	254311	6524740	Red Chromosol, CD, AH	4	E	mid-slope	75			120			native pasture		
133	161	FUL 6a	254379	6524523	Red Dermosol, DQ, AH	8	E	mid-slope		60		146			native pasture		
134	160	FUL 4	254710	6524738	Red Dermosol, DQ, AH	3	SE	mid-slope	100	50		137			tall native pasture		
135	262	FUL15B	255105	6524942	Red Dermosol, CD AH	7	N	lower slope	60	60		63	60	30	native pasture		
136	263	FUL17A	255328	6524666	Black Vertosol, FZ GS	0		flat			30	203			native pasture		
137	267	FUL16	255578	6524738	Black Vertosol, GM GS	1	E	flat			30	210			tall sedge grass		crabhole gilgai (0.1 x 1m microrelief)
138	43	JBS 44	249858	6524294	Red Dermosol, EX, BC	2	S	lower slope		70	70	203			sparse forage sorghum stubble		
139	42	JBS 46a	250508	6524294	Brown Chromosol, AZ, AH	2	W	mid-slope		38		76	20	10	sparse forage sorghum stubble		A1 water repellent
140	166	SF 30b	252334	6524065	Brown Chromosol, DQ, AH	4	N	upper slope	90	50		113			pine/box forest		
141	57	FUL 9	254216	6524143	Brown Chromosol, AZ, AH	4	E	lower slope		30		83			native pasture		
142	1	FUL 14	254529	6524232	Black Vertosol, GM, GS	1	SE	flat			15	174			pugged native pasture		
143	264	FUL18A	254978	6524413	Black Kandosol, CD BD	1	S	flat	110			80	159		native pasture		crabhole gilgai
144	265	FUL20	255154	6524182	Black Vertosol, FZ GS	0		flat				60	210		native pasture		
145	266	FUL19A	255524	6524338	Black Vertosol, GM GS	0		flat				60	210		tall sedge grass		crabhole gilgai (0.1 x 1m microrelief)
146	317	FTR1A	255976	6524389	Grey Vertosol, FY/BZ GS	1	SW	flat			0	114			native pasture		B21 has 1% gypsum
147	47	JBS 86a	249771	6523755	Red Vertosol, DQ, GS	3	W	lower slope	140	60		160			forage sorghum stubble		A1 has earthworms; also water repellent
148	48	JBS 51a	250261	6523600	Stratic Rudosol, BC	3	SW	lower slope		65	102	173			fallow (dead weeds)		
149	19	JBS 54	251246	6523856	Red Chromosol, EX, AH	7	SW	upper slope	90	60		119	80	8	cereal stubble		
150	20	JBS 61a	251812	6523801	Red Chromosol, DQ, AH	5	S	upper slope	95	55		80	80	8	sparse cereal stubble		
151	21	JBS62	252282	6523727	Red Chromosol, CD, AH	6	S	upper slope	65			84	70	8	cereal stubble		contour banks nearby
152	56	FUL10	253812	6524007	Grey-Orthic Tenosol, AR, CZ	5	NE	upper slope	55	25		28			native pasture		
153	55	FUL 12	254001	6523888	Red Kandosol, DQ, AH	5	E	mid-slope	100	50		149			native pasture		
154	3	FUL 11	254282	6523922	Brown Chromosol, DQ, AH	4	NE	mid-slope	105	50		157			cultivated; scattered weeds		
155	268	FUL21	255717	6524123	Black Vertosol, FZ GS	1	NE	flat			60	210			tall native pasture		crabhole gilgai (0.1 x 1m microrelief)
156	269	FUL22A	255940	6524018	Black Vertosol, FY GS	1	E	flat			15	166	5	50	tall native pasture		gilgai micro relief (0.2 x 5m)
157	316	FTR2a	256158	6524161	Black Vertosol, FZ GS	1	SW	flat			60	90			tall native pasture		
158	50	JBS 88	249729	6523195	Brown Vertosol, EG, EI	0		flat			10	162	10	7	bare fallow	groundwater >1.4 m; EC = 33.0 dS/m	salt crystals on surface
159	54	JBS 53A	250105	6523438	Brown Vertosol, FM, GS	0.5	S	flat			0	192	5	7	bare area	groundwater >1.3 m; EC = 34.0 dS/m	

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160	53	JBS 92	250161	6523124	Brown Vertosol, FM, EI	0.5	SW	flat			0	210	7	10	bare area	groundwater >1.3 m; EC = 31.0 dS/m	
161	49	JBS 52	250763	6523437	Red Chromosol, DQ, AH	3	SW	lower slope		60		157			thick kikuyu pasture		
162	18	JBS 57	251117	6523194	Red Chromosol, DQ, AH	4	S	lower slope		65		195	60	8	cereal stubble		
163	9	JBS 63a	251667	6523520	Brown Dermosol, DQ, AH	4	S	mid-slope	90	65		139	40	20	cereal stubble		
164	8	JBS 65	252014	6523190	Yellow Dermosol, CD, BD	3	W	mid-slope			32	161			cereal stubble	groundwater >1.1 m, EC=2.1 dS/m	20m above contour bank
165	5	JBS 67	252776	6523364	Red Dermosol, CD, AH	2	SW	crest	100	50		146	80	10	cereal stubble		
166	167	SF31A	253598	6523608	Red-Orthic Tenosol, AR, CZ	4	SE	upper slope	65			49			cypress pine forest		
167	4	FUL 13	254041	6523567	Brown Dermosol, CD, AH	5	SE	mid-slope	85	60		123	20	30	cultivated; scattered weeds		very hard pale volcanic parent material
168	51	JBS 90	249710	6522597	Black Vertosol, FM, EI	0		flat			15	210	10	7	forage sorghum stubble		
169	52	JBS 93	250149	6522803	Black Vertosol, GO, EI	0		flat			25	210			cereal stubble		
170	10	JBS 58a	250927	6522952	Red Chromosol, EX, BD	2	SW	lower slope			70	139			native pasture		
171	11	JBS 71	251559	6522853	Leptic Tenosol, AR, CZ	5	W	mid-slope	35			47	70	10	cereal stubble		
172	7	JBS 68	252478	6523055	Brown Chromosol, EX, BD	3	SW	upper slope	110	100	100	208	20	10	cereal stubble		
173	6	JBS 69a	252973	6523002	Brown Dermosol, DQ, AH	3	S	mid-slope		95		174	10	10	cereal stubble	groundwater >1.3 m, EC=1.9 dS/m	salt crystals on parts of surface
174	17	JBS 79	251198	6522305	Red Chromosol, DQ, AH	2	SW	lower slope	105	50		181	20	10	cereal stubble		
175	16	JBS82	251866	6522379	Brown Dermosol, CD, AH	5	SW	lower slope	60			109			cereal stubble		
176	12	JBS 77	252204	6522689	Yellow Dermosol, CD, AH	4	SE	mid-slope	95			180			cereal stubble		
177	15	JBS 84	252492	6522492	Red Chromosol, CD, BD	4	S	mid-slope			15	153	10	10	cereal stubble	groundwater >1.3 m, EC=1.1 dS/m	
178	229	HAN4	252785	6522417	Red Dermosol, CD, AH	2	N	upper slope				172	1	20	oats crop		
179	13	JBS 75	253002	6522685	Brown Chromosol, CD, BD	3	SW	upper slope			30	195	20	10	cereal stubble		
180	228	HAN5	253491	6522303	Red Chromosol, CD, AH	3	SW	upper slope	70	70		101			oats crop		active erosion
181	14	JBS 91	253630	6522548	Yellow Chromosol, DQ, AH	4	E	upper slope	80	50		108			cereal stubble		
182	254	HAN58	250010	6522193	Black Vertosol, BP EI	0		flat				210	1	10	improved pasture		crabhole gilgai (0.1m x 0.5m microrelief)
183	255	HAN 59A	250615	6522076	Black Vertosol, BP EI	0		flat			100	210			improved pasture		
184	256	HAN 60A	250820	6522186	Brown Vertosol, CD GS	1	SW	flat	50		80	119	25	30	improved pasture		
185	216	HAN1	251239	6522179	Grey Chromosol, EX, BD	2	SW	lower slope	120	50	70	104	5	50	improved pasture		
186	222	HAN2	251727	6522161	Red Dermosol, CD, AH	3	SW	mid-slope	60			87	2	100	improved pasture		
187	223	HAN3	252081	6522216	Red Chromosol, CD AH	3	S	mid-slope		100		183	1	100	improved pasture		
188	224	HAN7	252467	6522118	Brown Chromosol, CD, BD	2	SW	mid-slope	100	60	60	156			improved pasture		
189	225	HAN8	252806	6522024	Red Chromosol, EX BD	3	W	mid-slope	100	60	60	143	5	30	improved pasture		cattle camp
190	205	HAN 14A	253037	6522165	Red Dermosol, CD, AH	2	W	mid-slope		100		210	1	50	improved pasture		
191	230	HAN6A	253609	6522138	Red Chromosol, CD AH	5	NE	mid-slope	100	60		195	1	20	oats crop		
192	227	HAN24A	254090	6522112	Brown Chromosol, CD BD	6	N	mid-slope	80	60	80	116			cultivated improved pasture		
193	253	HAN62A	249800	6521839	Black Vertosol, BP EI	0		flat				210			improved pasture		
194	248	HAN63A	250276	6521728	Brown Vertosol, GM EI	0		flat			60	210			weedy pasture		
195	258	HAN64	250735	6521735	Black Vertosol, BP EI	0		flat				210			improved pasture		
196	213	HAN25	251005	6521625	Black Vertosol, BP, EI	0		flat				210			cultivated pasture	groundwater >1.2 m	
197	257	HAN61	251095	6521901	Black Vertosol, BR GS	0		flat				210	5	10	scalded pasture		
198	214	HAN26	251425	6521656	Aquic Vertosol, BP, GS	0		flat		15		210	1	10	pugged weedy pasture	groundwater >1.3 m	

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199	215	HAN9	251465	6521863	Black Vertosol, BR, GS	1	SW	flat		60	30	176	1	10	swampy pasture		
200	221	HAN10	252000	6521855	Red Chromosol, CD, AH	1	SW	mid-slope				186	5	5	improved pasture		active sheet erosion, contour banks nearby
201	226	HAN11	252736	6521812	Red Chromosol, EX BD	3	W	mid-slope	60	60	100	105	1	100	improved pasture		active sheet erosion
202	206	HAN 15	253108	6521806	Red Dermosol, CD BD	1	W	mid-slope	110	100	100	210	10	50	native pasture		
203	191	HAN 16	253778	6521876	Red Dermosol, CD, AH	3	N	mid-slope	60			48			native pasture		20% basalt outcrop
204	252	HAN65A	249593	6521436	Black Vertosol, GM EI	0		flat			30	210			grazed oats crop		
205	247	HAN66A	250230	6521368	Brown Vertosol, GM GS	0		flat			60	210			weedy pasture		
206	259	HAN67	250636	6521446	Black Vertosol, BP EI	0		flat				210	1	10	improved pasture		
207	212	HAN27A	251448	6521184	Black Vertosol, GM GS	0		flat			40	210	1	30	native pasture		
208	218	HAN28A	251906	6521460	Grey Vertosol, GO GS	2	W	lower slope			60	210	15	20	improved pasture	groundwater >1.2 m; EC = 14.4 dS/m	
209	219	HAN12A	252133	6521619	Red Sodosol, BD DP	0		mid-slope			50	210	2	50	improved pasture		
210	217	HAN21A	252258	6521359	Grey Vertosol, FZ, GS	1	NW	mid-slope			30	210	2	20	improved pasture		
211	220	HAN13A	252517	6521499	Red Chromosol, DQ, BD	2	W	mid-slope		60	100	142			improved pasture		
212	194	HAN 17A	253181	6521501	Red Vertosol, CD, GS	3	SW	mid-slope	60			67	10	20	cultivated pasture		
213	190	HAN18	253979	6521569	Brown Dermosol, EX, AH	3	S	mid-slope	30			38	20	100	native pasture (Aristida spp.)		
214	155	CMAWM1	254565	6521674	Leptic Tenosol, AR, CZ	7	NE	mid-slope	35			49	5	40	sparse native pasture, pine regrowth		
215	156	CMAWM2	254967	6521686	Red Chromosol, DQ, AH	3	E	mid-slope	105	60		189			native pasture		90cm small spring, near house
216	251	HAN68A	249476	6520997	Black Vertosol, BP EI	0		flat		100	100	210			grazed oats crop		
217	250	HAN70A	249832	6520797	Black Vertosol, GM EI	0		flat			60	210			improved pasture		
218	249	HAN69A	250167	6520842	Brown Vertosol, F2 EI	1	NW	flat			60	192			grazed oats crop		cattle camp
219	307	4DR2A	251012	6520883	Brown Vertosol, FY GS	0		flat			12	210			roadside weedy pasture	groundwater >2.3 m; EC = 54.9 dS/m	
220	382	WAL1	251007	6521200	Grey Vertosol, GM, GS	0		flat			30	210			wheat stubble		
221	311	4DR1A	251445	6521059	Red Vertosol, FZ GS	0		flat			55	210			roadside pasture		
222	196	HAN 22	252538	6521056	Black Vertosol, FZ, EI	1	NW	flat			60	210	1	10	cultivated pasture		
223	195	HAN 23	252838	6521098	Black Vertosol, FZ, EI	1	W	flat			60	186	10	100	cultivated pasture		
224	193	HAN 20	253434	6521200	Black Vertosol, FZ, EI	0		flat	80		30	160	1	10	improved pasture		
225	192	HAN 19	253689	6521356	Black Vertosol, FZ, EI	2	SE	mid-slope			60	210	1	10	improved pasture		
226	154	CMAWM 3A	254114	6521234	Red-Orthic Tenosol, AR, CZ	3	SE	upper slope	50			105	1	10	improved pasture		
227	114	CMAWM4A	254587	6521202	Red Dermosol, CD, AH	3	S	mid-slope	60			108	10	5	tall native pasture		active sheet erosion
228	113	CMAWM 5	254984	6521270	Black Vertosol, CD, GS	2	SE	mid-slope				162	10	20	50% stubble cover		
229	209	HAN52	249412	6520629	Black Vertosol, FZ, EI	1	N	flat			30	210			cultivated lucerne		
230	211	HAN54	250037	6520513	Black Vertosol, FZ, EI	0		flat			30	210			cultivated lucerne		
231	306	4DR3A	250584	6520691	Brown Vertosol, FZ ES	0		flat			50	210			roadside weedy pasture - sprayed	groundwater >1.4 m; EC = 11.3 dS/m	
232	381	WAL 3	251030	6520755	Grey Vertosol, FZ, EI	1	NW	lower slope			30	132			wheat stubble		

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233	377	WAL 4	251461	6520765	Red Dermosol, CD, CQ	1	NW	lowerslope			60	210	1	7	wheat stubble		controlled traffic paddock (3m wheel spacing), pit between tracks
234	198	HAN 29	253667	6520793	Black Vertosol, FZ, EI	2	N	mid-slope			30	210		1	oats crop		
235	199	HAN 30	254110	6520794	Black Vertosol, CD, EI	3	N	mid-slope	100		60	210	2	100	oats crop		
236	200	HAN 31A	254489	6520826	Black Vertosol, FZ, EI	3	N	mid-slope			60	210	10	100	oats crop		active gully erosion
237	111	CMAWM 6	254989	6520821	Black Vertosol, FZ, EI	3	NE	mid-slope			60	210	10	40	40% stubble cover		contour banks nearby
238	112	CMAWM 7a	255471	6520791	Red Vertosol, FZ EI	2	NE	lower slope			60	195			native pasture, red gum		
239	305	4DR5A	249713	6520254	Black Vertosol, FZ GS	0		flat			90	210	2	5	roadside pasture		surface stone is from road gravel via grading
240	210	HAN53	249693	6520346	Black Vertosol, FZ, EI	1	NW	flat			15	210			cultivated lucerne		
241	380	WAL 9	250116	6520257	Black Vertosol, FY, EI	1	N	flat			0	162			wheat stubble		
242	379	WAL 10	250565	6520256	Red Vertosol, FZ, EI	0		flat			40	210			wheat stubble		earthy aroma, earthworm at 5cm depth
243	378	WAL 11	251043	6520313	Black Vertosol, FZ, EI	0		flat			60	114			wheat stubble		
244	386	WAL 12A	251464	6520316	Red Dermosol, EX, AH	2	NW	lower slope		73		198	1	7	sparse wheat stubble		
245	383	WAL 13A	252039	6520331	Brown Vertosol, FZ, GS	1	NW	mid-slope			50	138			native pasture, pine trees		B1 domed & columnar, A11 water repellent
246	197	HAN 32	253669	6520365	Black Vertosol, FZ, EI	3	N	mid-slope			60	210	10	20	cultivated pasture		contour banks nearby
247	201	HAN 33	254115	6520364	Red Vertosol, FZ, EI	4	N	mid-slope	40		40	76	30	100	improved pasture		contour banks nearby
248	118	CMAWM 8	254562	6520368	Red Dermosol, CD, AH	9	NW	mid-slope	50			77	1	30	tall improved pasture		
249	109	CMAWM 9a	254985	6520364	Red Vertosol, FZ, BH	4	NE	mid-slope	60		60	88	30	30	40% stubble cover		contour banks nearby
250	108	CMAWM 10a	255468	6520375	Brown Vertosol, FZ, EI	4	NE	mid-slope			60	210	30	50	50% cereal stubble		
251	153	CMAWM 11	255927	6520349	Black Vertosol, FZ, GS	3	N	lower slope	95		60	210			native pasture		
252	207	HAN 51	247445	6519836	Black Vertosol, CD, EI	0		flat		100		210			young wheat crop		
253	208	HAN50	247933	6519789	Brown Vertosol, FY, EI	0		flat			15	210			young wheat crop		
254	301	4DR9A	247948	6519589	Red Vertosol, FZ GS	1	NW	flat			90	203	5	10	roadside weedy pasture		
255	302	4DR8A	248361	6519629	Red Vertosol, FZ, GS	1	N	flat			25	140	15	10	roadside myall trees		
256	303	4DR7A	248811	6519720	Brown Vertosol, FZ GS	1	NW	flat			70	133			roadside weedy pasture		
257	304	4DR6A	249248	6519997	Brown Vertosol, FZ, GS	0		flat			60	197	10	10	roadside weedy pasture		surface stone is from road gravel via grading
258	349	THY 1	249684	6519810	Grey Vertosol, FZ, GS	1	N	flat			65	132			blue grass, lucerne		
259	348	THY 2	250132	6519808	Black Vertosol, FZ, GS	1	N	flat			35	144			blue grass, lucerne		
260	346	RR1	250574	6519818	Black Vertosol, FY, EI	1	N	flat			10	126			lucerne, native grasses		
261	347	RR2	251030	6519821	Grey Vertosol, FY, EI	1	NW	flat			10	156			lucerne, chickory, native grasses.		
262	385	WAL 17	251498	6519868	Supracalcic Calcarosol, EX, DY	1	NW	lower slope			15	150			native pasture		
263	384	WAL 18B	251945	6519971	Red Chromosol, AZ, CV	2	NW	lower slope		75	75	127	1	8	sparse wheat stubble		
264	246	HAN55	252484	6519828	Stratic Rudosol, BC	2	NW	mid-slope			110	104	1	10	native pasture		
265	245	HAN56A	252920	6519748	Black Vertosol, FZ GS	3	NW	mid-slope			38	162			pugged native pasture		
266	235	HAN57A	253353	6519693	Brown Vertosol, FZ GS	3	NW	mid-slope			30	17	15	20	rhodes grass		
267	204	HAN 34	253676	6519927	Black Vertosol, FZ, EI	3	N	mid-slope			40	168	5	100	improved pasture		contour banks nearby

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268	202	HAN 35A	254133	6519945	Black Vertosol, FZ, EI	3	N	mid-slope			60	210	3	100	improved pasture		active gully erosion, contour banks nearby
269	117	CMAWM 12	254592	6519912	Brown Vertosol, DQ, GS	8	NW	mid-slope	120	55		202			tall native pasture		
270	119	CMAWM 13	255026	6519927	Red Vertosol, FZ, GS	6	NE	mid-slope			100	134			native pasture; box & kurrajong woodland		
271	110	CMAWM 14a	255478	6519946	Black Vertosol, FZ, EI	4	NE	mid-slope			30	210	10	100	50% stubble cover		contour banks nearby
272	61	CMAWM 15	255937	6519926	Black Vertosol, FY, EI	3	NE	mid-slope			5	210	2		30% sorghum stubble		
273	59	CMAWM 16	256343	6519917	Black Vertosol, FZ, EI	2	E	lower slope		80		210	5		20% sorghum stubble		
274	300	4DR10A	247503	6519283	Brown Sodosol, BD ES	1	NW	lower slope		85	85	123			roadside weedy pasture		
275	360	WLS 9	248785	6519363	Black Vertosol, FZ, GS	1	N	flat			35	156			wheat stubble		
276	350	THY 3	249328	6519352	Grey Vertosol, FZ, GS	1	N	flat			70	90			lucerne, native grasses		15-50cm shrinkage crack 20mm wide
277	351	THY 4	249705	6519363	Black Vertosol, FZ, GS	1	N	flat			40	114			lucerne, native grasses		strong ant activity
278	352	THY 5	250143	6519371	Black Vertosol, FZ, GS	1	N	flat			40	90			blue grass, lucerne		strong ant activity
279	345	RR3	250592	6519372	Black Vertosol, FZ, EI	1	N	flat			60	162			lucerne, chickory, native grasses.		
280	340	RR 4A	251023	6519385	Black Vertosol, CD, EI	1	W	lower slope			90	210			lucer, chickory, fescue pasture		
281	338	RR 5	251477	6519382	Red Chromosol, DQ, AH	2	NW	mid-slope		70		196			native pasture, cypress pine		
282	359	RR 6	251935	6519409	Red Ferrosol, DQ, BC	1	NW	mid-slope		70	70	133			digit/love grass, clover		Intermittent plough pan 5-20cm
283	242	HAN36A	252434	6519426	Red Chromosol, EX CQ	2	W	mid-slope			60	123			native pasture		
284	243	HAN37	252819	6519464	Brown Vertosol, FZ GS	2	NW	mid-slope			45	90	1	10	native pasture		
285	244	HAN38	253256	6519474	Brown Vertosol, FZ GS	1	W	mid-slope			40	127	1	25	native pasture		contour bank nearby
286	234	HAN39A	253694	6519469	Red Vertosol, FZ GS	3	NW	mid-slope			30	197	20	100	improved pasture		active sheet erosion, contour banks nearby
287	203	HAN 40A	254218	6519641	Black Vertosol, FZ, GS	4	NW	upper slope	100		60	210	10	100	improved pasture		contour banks nearby
288	116	CMAWM 17	254601	6519473	Red Ferrosol, CD, AH	10	NW	upper slope	60	40		61	10	30	native pasture		
289	115	CMAWM 18	255038	6519488	Red Chromosol, CD, AH	15	NE	upper slope	120			133	15	70	tall native pasture, box trees		
290	107	CMAWM 19	255485	6519479	Black Vertosol, FZ, EI	5	NE	upper slope			60	210	10	300	30% cereal stubble		contour banks nearby
291	106	CMAWM 20	255928	6519491	Black Vertosol, FY, EI	5	NE	mid-slope			15	210	2	50	20% cereal stubble		contour banks nearby
292	60	CMAWM 21	256389	6519478	Black Vertosol, FZ, EI	4	E	lower slope			25	210	2	50	25% sorghum stubble		
293	374	WLS 1	247050	6518975	Brown Kurosol, AZ, FD	1	NW	lower slope		30		116			cypress pine woodland		
294	373	WLS 2	247500	6518908	Brown Chromosol, AZ, AH	4	NW	lower slope		60		82			improved pasture		
295	361	WLS 10	248825	6518924	Red Chromosol, EX, AH	1	NE	flat		90		90			wheat stubble		
296	362	WLS 11	249274	6518918	Black Vertosol, FZ, EI	1	N	flat			40	210			wheat stubble		dark infilled cracks to 130cm
297	363	WLS 12	249714	6518926	Black Vertosol, FZ, EI	1	N	flat				174			wheat stubble		white fungus 20- 60cm

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298	364	WLS 13A	250184	6518895	Black Vertosol, FZ, EI	1	N	flat				126			wheat stubble		scattered weeds. Dark infilled crack to 130cm, no surface stones
299	344	RR 7A	250586	6518938	Grey Vertosol, BR, EI	0		flat			10	90			digit grass, lucerne, chickory		
300	339	RR 8	251050	6518934	Red Vertosol, FZ, EI	2	N	lower slope			50	210			native pasture		
301	336	RR 9A	251480	6518960	Brown Chromosol, CD, EX	3	W	lower slope				115			digit grass, medic		
302	337	RR 10A	251931	6518960	Red Chromosol, CD, ET	3	W	lower slope		105		190			love grass		
303	241	HAN41	252400	6518978	Brown Dermosol, EX AH	2	W	mid-slope				92	1	20	native pasture		
304	240	HAN42	252837	6519019	Red Chromosol, EX AH		NW	mid-slope			60	210	5	10	oats crop		
305	239	HAN43	253271	6518998	Grey Vertosol, FZ GS	2	W	mid-slope		50	70	110	1	20	oats crop		
306	233	HAN44	253749	6519006	Red Chromosol, CD AH	3	W	mid-slope				198	20	20	improved pasture		active sheet erosion, contour banks nearby
307	231	HAN45	254177	6519020	Brown Dermosol, DQ AH	5	NW	upper slope		60		147	2	100	improved pasture (Rhodes grass)		
308	389	WIL 1	254614	6519038	Brown Vertosol, FY, EI	5	NW	upper slope		100	17	210	1	25	native pasture		
309	392	WIL 2A	255032	6519047	Red Vertosol, CD, EI	8	SE	upper slope	90			57	2	30	native pasture, box trees		
310	395	WIL 3A	255492	6519008	Black Vertosol, FZ, EI	6	E	mid-slope			40	192			cereal stubble		between contour banks
311	397	WIL 4A	255958	6519047	Black Vertosol, FZ, EI	4	E	mid-slope			50	210			cereal stubble		
312	398	WIL 5	256407	6519037	Black Vertosol, FZ, EI	3	E	lower slope			60	210			cereal stubble		between contour banks (crop around contour)
313	299	4DR12A	246630	6518558	Brown Chromosol, DQ AH	2	NW	lowerslope		50		156			roadside native pasture		
314	376	WLS 4	247065	6518460	Arenic Rudosol, AR	3	NW	mid-slope				77			sparse lucerne		
315	372	WLS 5	247504	6518463	Clastic Rudosol, BC, HI	8	NW	mid-slope		85		127	2	15	digit grass		
316	367	WLS 14	249279	6518481	Black Vertosol, FZ, GS	1	NE	flat				130			wheat stubble		
317	366	WLS 15	249731	6518480	Black Vertosol, FZ, EI	1	N	flat				210			wheat stubble		shrinkage crack at 90cm, 30mm wide
318	365	WLS 16	250173	6518490	Black Vertosol, FZ, GS	1	NE	flat				128			wheat stubble		shrinkage crack 90cm deep, 80mm wide
319	343	RR 11	250618	6518489	Black Vertosol, FZ, EI	1	N	flat			45	144			digit grass, lucerne		
320	334	RR 12A	251079	6518486	Red Dermosol, EX, BC	2	NW	lower slope		95	45	188			native pasture near olives		
321	335	RR 13	251496	6518507	Brown Chromosol, AH, DQ	2	NW	lower slope		55		146			love grass, red grass		
322	355	RR 14B	251941	6518564	Stratic Rudosol, AR	2	NW	mid-slope				156	3	5	love grass, lucerne		near contour banks
323	236	HAN46	252373	6518521	Brown Chromosol, CD AH	2	NW	mid-slope		80		80	1	100	rhodes grass		
324	237	HAN47A	252864	6518597	Red Chromosol, CD BD	2	NW	mid-slope			100	180	1	5	pine forest, native grass		
325	238	HAN48	253318	6518557	Red Vertosol, FZ GS	3	NW	upper slope			50	168	10	10	oats crop		
326	232	HAN49	253755	6518568	Brown Chromosol, DQ, BD	6	W	upper slope		60	100	163	1	100	improved pasture		
327	388	WIL 6A	254304	6518578	Leptic Tenosol, AR, CZ	16	W	upper slope	15			47	1	10	pine/box forest		
328	390	WIL 7A	254687	6518576	Leptic Tenosol, AR, CZ	7	E	crest	45			21	5	5-150	stunted eucalypt/pine woodland		

Map ID Feb '14	Field Site ID	BHPB ID	Easting (m)	Northing (m)	Australian Soil Classification	Slope	Aspect	Landscape Position	Depth to rock (cm)	Depth to Waterlogged Layer (cm)	Depth to Lime (cm)	TAW (0-100 cm) mm	Surface Rock (%)	Surface Rock (mm)	Land Use	Seepage into Pits	Other comments
329	393	WIL 8A	255047	6518593	Black Vertosol, FZ, GS	15	SE	upper slope			32	142	5	40	sparse native pasture, box trees		between contour banks, signs of sheet/gully erosion (pre pasture)
330	396	WIL 9	255523	6518592	Red Vertosol, FZ, EI	6	SE	mid-slope			35	132	2	10	cereal stubble		
331	400	WIL 10	255979	6518584	Black Vertosol, FZ, EI	4	E	mid-slope			35	210	1	5	cereal stubble		between countour banks
332	399	WIL 11	256410	6518598	Black Vertosol, FZ, EI	3	E	mid-slope			40	198	1	40	cereal stubble		
333	404	WIL 12	256853	6518612	Black Vertosol, FZ, EI	2	NE	lower slope			30	210			cereal stubble		
334	375	WLS 6	247073	6518025	Red Dermosol, CD, AH	2	NW	mid-slope				203			lucerne pasture		
335	371	WLS 7A	247459	6518029	Red Dermosol, CD, AG	9	W	mid-slope	90	50		94			emerging cowpea crop		
336	370	WLS 8	247960	6518034	Red Ferrosol, AI, AH	4	S	upper slope	110			135			digit grass		
337	368	WLS 17	249297	6518036	Black Vertosol, FZ, GS	0		flat			80	172			wheat stubble		
338	369	WLS 18	249745	6517975	Black Vertosol, FY, EI	1	NW	flat				144			wheat stubble		
339	342	RR 15A	250162	6518085	Black Vertosol, FZ, GS	2	NE	lower slope			35	210			plains grass, medic		erosion gully nearby
340	341	RR 16A	250650	6518046	Black Vertosol, FZ, EI	0		flat			32	210			plains grass		
341	333	RR 17	251068	6518059	Red Dermosol, BD, CQ	1	NW	lower slope		78	78	198			improved pasture (sub-tropical)		numerous black ants & white grubs 0-5cm
342	353	RR 18A	251552	6518097	Red Chromosol, DQ, AH	2	NW	mid-slope		77		162			sparse native grass, pine/gum trees		
343	354	RR 19	251947	6518080	Red Dermosol, DQ, AH	2	W	mid-slope		80		117			love grass		20 years since paddock was farmed, 5-22cm sporadic pan
344	356	RR 20A	252403	6518052	Brown Dermosol, DQ, AH	4	NW	mid-slope		42		114	1	5	love grass, thistles		sporadic plough pan 10-20cm
345	357	RR 21	252785	6518086	Stratic Rudosol, BC	5	NW	mid-slope		58	110	115	1	5	blue grass, love grass		A1 has ant chambers
346	358	RR 22A	253338	6518099	Red Chromosol, DQ, BD	10	W	upper slope		55	85	86	3	10	plains grass		
347	387	WIL 13A	254152	6518151	Brown Kurosol, CD, AH	15	NW	upper slope	70			97	2	80	eucalypt forest		
348	391	WIL 14	254655	6518137	Grey Vertosol, FZ, GS	5	W	crest		85	25	90			eucalypt woodland		A11 water repellent
349	394	WIL 15A	255102	6518110	Red Vertosol, FZ, GS	14	E	upper slope		70	30	79	5	40	sparse native pasture		above contour banks, stabilised gullies
350	401	WIL 16A	255566	6518087	Grey Vertosol, FY, EI	7	E	mid-slope			18	138	5	3	cereal stubble		
351	402	WIL 17	255992	6518147	Stratic Rudosol, BC	3	E	mid-slope		70	40	89			native pasture		
352	403	WIL 18A	256450	6518117	Stratic Rudosol, BC	2	E	lower slope			0	180			tall native pasture		20m from large erosion gully
353	279	PRM1	261102	6526714	Black Vertosol, GM, EI	0		flat			30	210			native pasture		
354	280	PRM2	261551	6526718	Brown Dermosol, DC AH	0		flat	60	60		40	20	20	native pasture, box trees		
355	296	PRM3	261993	6526717	Red Chromosol, DC BD	3	NW	lower slope		50	100	64	40	20	tall native pasture		
356	282	PRM4	260653	6526271	Aquic Vertosol, GM, GS	0		flat			100	210			native sedge pasture		
357	281	PRM5	261103	6526269	Black Vertosol, GM, EI	0		flat			30	210			oats/rye/clover pasture		
358	294	PRM6	261546	6526274	Red Chromosol, DC BD	3	NW	lower slope			60	152	30	40	cultivated		
359	295	PRM7	261992	6526272	Brown Chromosol, DQ AH	2	SW	mid-slope	120	60		71	20	40	tall native pasture		
360	125	CORJ 1	259777	6525787	Brown Vertosol, FZ, GS	0.5	NW	flat			25	96			wheat crop - recently sown		
361	283	PRM8	260206	6525821	Brown Vertosol, FZ GS	1	NW	flat			30	150	1	20	improved pasture		
362	284	PRM9	260650	6525822	Black Vertosol, FZ GS	0		flat			30	202			native pasture		

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363	285	PRM10	261099	6525829	Brown Chromosol, DC BD	2	NW	lower slope	100	60	30	73	1	30	sown pasture		
364	293	PRM11	261550	6525818	Brown Chromosol, DQ BD	2	W	lower slope		60	60	43	30	40	tall native pasture		
365	292	PRM12	261997	6525819	Clastic Rudosol, HI	2	N	lower slope	30		100	89	20	50	native pasture		
366	124	CORJ 2	259756	6525346	Brown Vertosol, FZ, GS	0.5	NW	flat			65	150			wheat crop - recently sown		
367	126	CORJ 1a	260215	6525418	Brown Vertosol, FZ, GS	0		flat			12	162			young oats crop		
368	286	PRM13	260654	6525375	Brown Vertosol, FZ GS	1	NW	flat			30	162	1	10	tall native pasture		
369	287	PRM14	261104	6525378	Brown Chromosol, EX BD	7	NW	lower slope			30	68	10	30	native pasture		
370	290	PRM15	261551	6525376	Clastic Rudosol, HI	8	N	lower slope	0			22	20	10	native pasture		
371	291	PRM16	261995	6525377	Clastic Rudosol, HI	5	NW	lower slope	110	75	100	107	40	50	tall native pasture		
372	278	COGJ1	259312	6524925	Brown Vertosol, FY BH	0		flat				150			weedy sorghum residues		
373	123	CORJ 3	259760	6524923	Brown Vertosol, GM, GS	0		flat			30	210			wheat crop - recently sown		
374	127	CMAW 2	260205	6524926	Brown Sodosol, BD, ES	0		flat			50	98			young oats crop		
375	289	PRM17	260651	6524927	Brown Dermosol, DQ AH	3	W	lower slope	60	60		23	1	40	native pasture		
376	288	PRM18A	261374	6525090	Brown Chromosol, CD AH	11	NW	crest	50		80	27	10	40	native pasture		10% rock outcrop
377	138	CODF 1A	261956	6524920	Red Dermosol, DQ, AH	7	N	mid-slope	70	50		84			tall native pasture		
378	139	CODF 2a	262473	6524916	Brown Dermosol, CD, AH	4	NE	mid-slope				109	50	30	recently sown wheat crop		
379	120	CMAW 3a	259767	6524483	Black Vertosol, GM, EI	0.5	W	flat		50	50	168			wheat crop - recently sown		
380	130	CORG1	260208	6524476	Leptic Tenosol, AR, CZ	5	N	mid-slope	40			25	1	10	native pasture		
381	152	GC1	260654	6524479	Red Dermosol, CD, AH	8	N	mid-slope	70	48		97			improved pasture		
382	151	CMAW 6	261158	6524487	Brown Dermosol, DQ, AH	8	N	mid-slope	80	50		101	1	10	native pasture		
383	146	CMAW 7a	262360	6524522	Brown Chromosol, DQ, AH	3	NW	mid-slope	110	60		109	1	20	native pasture, pine regrowth		
384	145	CMAW 8	262883	6524483	Brown Chromosol, DQ, AH	9	NE	mid-slope	105	50		125	2	20	tall native pasture		
385	140	CMAW 9a	263309	6524475	Brown Chromosol, DQ, AH	4	NE	mid-slope		35		131			tall native pasture		
386	143	CMAW 10	263779	6524478	Brown Chromosol, DQ, AH	2	S	lower slope		60		103			tall native pasture		
387	128	CMAW 4	259763	6524028	Black Vertosol, FZ, GS	0		flat			90	90			pugged native pasture		
388	131	CORG 2	260205	6524029	Black Vertosol, GM, BH	1	SW	flat			90	192			pugged native pasture		
389	136	CODF 3	261287	6524240	Red Dermosol, CD, AH	1	SW	flat	85	65		73	5	50	tall native pasture		
390	147	CMAW 11a	262029	6524043	Brown Dermosol, DQ, AH	9	SE	upper slope	100	65		48	3	10	native pasture, gum/ pine regrowth		
391	141	CMAW 12a	263214	6524008	Red Vertosol, FY, GS	12	NE	upper slope		100	8	100	1	20	native pasture		
392	144	CMAW 13	263776	6524035	Brown Chromosol, EX, BD	5	E	lower slope		45	75	102	2	20	native pasture		
393	129	CMAW 5	259758	6523580	Black Vertosol, GM, GS	1	SW	flat			40	174			pugged native pasture		
394	132	CORG 3	260205	6523580	Grey Vertosol, FZ, BH	0		flat			40	90			native pasture		
395	121	CORG 4	260653	6523588	Black Vertosol, GO, ES	0		flat			10	150			wheat seedlings and weeds		
396	137	CODF 4	261102	6523580	Grey Chromosol, DQ, AH	4	W	lower slope	60	25		67			native pasture		
397	148	GC 4b	262894	6523563	Red Dermosol, AI, AH	3	S	upper slope	90			66	3	20	native pasture, gum/ pine woodland		
398	142	CMAW 14	263774	6523588	Black Vertosol, FY, EI	0.5	SE	flat			7	192	20	30	young wheat crop		
399	133	CORG 5	260206	6523132	Brown Vertosol, FZ, BH	0.5	SW	flat			60	90			pugged native pasture		
400	122	CORG 6	260648	6523145	Grey Vertosol, GB, GS	0		flat			0	102			cultivated; young weeds		
401	134	CORG 7	261115	6523142	Red Dermosol, DQ, AH	7	W	lower slope		50		106	80	20	young oats crop		
402	150	GC 2a	261552	6523382	Red Dermosol, CD, AG	2	W	mid-slope	75	55		58			sparse native pasture, gum/pine regrowth		
403	149	GC 3b	262226	6523192	Red Kurosol, CD, AG	8	S	upper slope	90			75			sparse native pasture, pine regrowth		
404	135	CORG 8	261106	6522687	Grey Vertosol, FM, BH	0		flat			0	102			pugged native pasture		

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1	318	A1	10	LC	6	7.5YR3/2	Dark brown		1.1	5		2	D		3
1	318	2Bb	60	MHC	8.5	7.5YR4/3	Brown		1.0			2	S		2
1	318	3Bb	140+	LC	9	7.5YR4/3	Brown		1.0			0	S/M	5 D	1(90)
2	319	A1	15	CS	5.5	7.5YR4/2	Brown		1.0	10		0	D		3
2	319	A2	35	LS	5.5	7.5YR5/3	Brown		1.0	20		1	D		3
2	319	B21	80	LC	7	7.5YR5/4	Brown	Grey	0.8	15	Mn	0	S		1
2	319	B22	140+	LC	7	7.5YR4/4	Brown		0.7	4	Mn	2	S/M		1(110)
3	325	A11	15	SL	6	2.5YR3/2	Dusky Red		1.5	50		0	D		3
3	325	A12	30	SL	5.5	2.5YR3/4	Dark reddish brown		1.5	80		0	D		3
3	325	A3	90	LMC	6	2.5YR4/4	Reddish brown		1.1	60		0	S		2
3	325	B2	120	LC	6.5	7.5YR5/6	Strong brown	Grey		5		0	S		1
3	325	C	130+	Conglomerate											
4	326	A11	12	SL	6	5YR3/2	Dark reddish brown		1.1	5			D		3
4	326	A12	22	SL	6	5YR4/3	Reddish brown		1.3	20			D		3
4	326	A2	30	SL	6.5	5YR4/3	Reddish brown		1.5	40			D		2
4	326	B21	70	LC	8	5YR4/6	Yellowish red		0.6				S		1
4	326	B22	140	LC	9.5	5YR5/4	Reddish brown		1.3				S/M	15 P	1
5	320	A1	15	SL	5	7.5YR3/2	Dark brown		1.3	20		1	D		4
5	320	A2	40	SL	7	7.5YR5/3	Brown		1.2	40		2	D		3
5	320	B21	70	LMC	7	7.5YR5/4	Brown		0.7			1	S		2
5	320	B22	130	LC	8	7.5YR6/4	Light brown		0.5	5	Mn	0	S/M		1(100)
5	320	B23	140+	LC	9.5	7.5YR6/4	Light brown		0.5	15	Mn	0	S/M	3 N/D	
6	327	A11	10	SL	6	7.5YR3/3	Dark brown		1.5	5		0	D		3
6	327	A12	40	SL	6	7.5YR4/4	Brown		1.4	5		0	D		3
6	327	2Ab	60	SL	7	7.5YR5/4	Brown		1.0	40		0	S		2
6	327	3Bb	78	LC	6.5	7.5YR5/4	Brown		0.6	15	Mn	0	S		1
6	327	4Ab	90	SCL	6.5	7.5YR4/4	Brown		1.0	30		1	S		1
6	327	5Bb	140	LM	8	7.5YR5/6	Strong brown	Grey	0.3			0	S/M		1
7	328	A11	8	FSCL	6	7.5YR3/1	Very dark grey		1.7	10		0	D		3
7	328	A12	20	SCL	6	7.5YR3/3	Dark brown		1.4	10		0	D		3
7	328	A31	40	SCL	7	7.5YR4/4	Brown		1.3	40		0	D		3
7	328	A32	62	SCL	n/a	10YR5/6	Yellowish brown	Slight Grey	n/a	90		0	n/a		n/a
7	328	B21	90	LC	n/a	10YR5/6	Yellowish brown	Slight Grey	0.5	90		0	S		2
7	328	B22	120	LC	7.5	10YR5/6	Yellowish brown	Slight Grey	0.5	40		0	S		1
7	328	C	125+	Conglomerate											
8	321	A1	12	FSCL	6	7.5YR4/3	Brown		0.4			0	D		2
8	321	A3	25	LC	6.5	7.5YR4/4	Brown		1.1	2		0	D		3
8	321	B2	48	LC	7	7.5YR5/6	Strong brown		1.2	20		0	S		3
8	321	A2	52	Thin bleached zone						70					2
8	321	B21	80	LC	7.5	7.5YR5/4	Brown	Grey	1.1	1	Mn	1	S		1
8	321	B22	140+	LC	9	7.5YR5/8	Strong brown		1.1	1	Mn	0	S/M	1 D	1
9	324	A11	12	LC	5.5	7.5YR3/3	Dark brown		1.1	20		0	D		2
9	324	A12	35	LC	6.5	7.5YR3/3	Dark brown		1.2	20		0	D		2

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9	324	B21	80	LC	7	7.5YR5/6	Strong brown		1.0	2		0	S		2
9	324	B22	100	LC	7.5	7.5YR5/6	Strong brown	Strong Grey	0.4	2		0	S/M		1
9	324	C	120	95% Decomposing Conglomerate											
10	323	A11	13	FSCL	6	7.5YR3/3	Dark brown		0.8	5		0	D		2
10	323	A12	55	SCL	6.5	7.5YR4/3	Brown		0.3	20		0	D		2
10	323	A2	95	LS (med)	6.5	7.5YR5/3	Brown		0.5	60		0	S		1(70)
10	323	B2	140	SLC	7	7.5YR5/8	Strong brown	Strong Grey	1.1	10		0	S/M		
11	322	A1	10	SCL	5.5	7.5YR3/3	Dark brown		0.9	10		0	D		2
11	322	A2	30	SCL	6.5	5YR4/3	Reddish brown		1.2	30		0	D		1
11	322	B21	65	MC	8	5YR5/4	Reddish brown		0.7			2	S		1
11	322	B22	90	LMC	9.5	5YR5/4	Reddish brown		0.8	10		1	S	15 P/D	1
11	322	B23	140	LC	9.5	5YR5/4	Reddish brown		0.9	2		0	S	5 D	1(110)
12	87	A1	15	SCL	6	7.5YR3/2	Dark brown		1.7	60		2	M		3
12	87	A3	30	SLC	7	7.5YR4/3	Brown		1.5	30		2	M		2
12	87	B2	50	MHC	7.5	7.5YR4/6	Strong brown		0.8	10		2	S/M		1
12	87	BC	90	SLC	8.5	10YR4/4	Dark yellowish brown		0.5	10	Mn	1	S/M	1 D	0
12	87	C	95+	Conglomerate											
13	86	A1	15	SCL	6	7.5YR3/2	Dark brown		1.8	50		2	M		3
13	86	A3	30	SLC	6.5	10YR4/3	Brown		1.7	60		3	M		3
13	86	B2	50	LSC	7	2.5YR3/4	Dark reddish brown		1.6	60	Mn	2	M		3
13	86	B3	100	LSC	7.5	2.5YR5/1	Reddish grey	Strong Brown	1.4	70	Mn	2	M	1 D	2
13	86	BC	140+	LC	8	10YR5/6	Yellowish brown	Grey	1.0	60	Mn	2	S/M	1 D	0
14	189	A1	15	SL	5	5YR3/2	Dark reddish brown		1.9	80		0	M		3
14	189	A3	30	SCL	4.5	5YR3/3	Dark reddish brown		1.8	80		0	M		3
14	189	B2	50	SLC	5	2.5YR3/6	Dark red		1.5	80		0	S/M		2
14	189	B2	80+	SLC	5	7.5Yr6/8	Reddish Yellow	Red	0.8	80		0	D		1
15	84	A1	15	SCL	6.5	7.5YR3/1	Very dark grey		1.8	50		1	M		3
15	84	A3	40	SLC	7.5	7.5YR3/3	Dark brown		1.7	60		3	M		2
15	84	B2	60	LMC	8	5YR4/4	Reddish brown		1.5	80		3	M		2
15	84	B3	100	SLC	7.5	2.5YR5/4	Reddish brown	Brown	1.3	80	Mn	3	M		1
15	84	C	140	SLC	9	2.5YR6/2	Pale Red	Brown	1.5	80		2	S/M	1 D	0
16	83	A1	15	SCL	6.5	7.5YR3/1	Very dark grey		1.8	50		1	M		3
16	83	A2	40	SCL	7	7.5YR4/3	Brown		1.7	0		2	M		2
16	83	B21	60	LC	7.5	7.5YR5/6	Strong brown		1.6	40		3	M		1
16	83	B22	80	SCL	8.5	10YR5/6	Yellowish brown	Red	1.1	30		3	M	1 N	0
16	83	BC	140+	SCL	9.5	2.5YR5/2	Weak red	Brown	0.8	5	Mn	3	S/M	5 N	0
17	82	A1	15	SCL	5.5	7.5YR3/1	Very dark grey		1.7	40		1	M		3
17	82	A2	40	SLC	6	7.5YR4/3	Brown		1.6	60		3	M		2
17	82	B2	60	MHC	7.5	10YR4/2	Dark greyish brown	Brown	0.9	30		2	M		0
17	82	B3	80+	LMC	7.5	10YR4/2	Dark greyish brown	Brown	0.5	30	Mn	2	M		0
18	188	A1	15	SL	6	5YR3/2	Dark reddish brown		1.8	60		1	M		3
18	188	A3	30	SL	4.5	5YR3/3	Dark reddish brown		1.5	80		1	M		3

Map ID Feb '14	Field Site ID	Horizon	Lower Depth cm	Texture	pH Water	Moist Soil Colour (Munsell)	Colour from Munsell Sheet	Mottles	SOILpak compaction score	Coarse fragments %	Mn?	Dispersion 10 minutes	Moisture	Lime % Type	Root score
18	188	B2	60	SLC	4.5	5YR4/4	Reddish brown		1.3	90		3	D		2
18	188	B2C	80+	SCL	4.5	5YR4/3	Reddish brown		0.8	95		3	D		1
19	181	A1	15	FSL	5	7.5YR3/1	Very dark grey		1.8	40		1	M		3
19	181	A3	30	FSL	4.5	7.5YR3/2	Dark brown		1.5	50		2	M		2
19	181	B1	60	FSCL	7.5	7.5YR4/2	Brown		1.0	50	Mn	3	D		1
19	181	B2	70+	SLC	8	7.5YR5/2	Brown	Red		50		3	D		3
20	85	A1	15	SCL	6.5	7.5YR3/2	Dark brown		1.8	50		2	M		3
20	85	A3	30	SLC	7	5YR3/3	Dark reddish brown		1.6	80		3	M		2
20	85	B21	60	LMC	7.5	7.5YR4/4	Brown		1.5	80	Mn	2	M		1
20	85	B22	80	LC	8	2.5YR5/2	Weak red	Brown	1.1	50	Mn	2	M	1 D	1
20	85	BC	140+	SLC	8.5	10YR4/6	Dark yellowish brown	Grey	0.5	80		2	S/M	1 D	0
21	81	A1	15	SLC	7	10YR3/1	Very dark grey		1.8	30		3	M		3
21	81	A3	30	SCL	7.5	10YR4/2	Dark greyish brown		1.0	50		2	S/M		1
21	81	B2	60	SLC	7.5	10YR4/4	Dark yellowish brown		1.0	50		0	S/M		1
21	81	BC	90	SCL	7.5	7.5YR4/4	Brown		0.5	50		0	S/M		0
21	81	C	95+	Conglomerate											
22	80	A1	15	SLC	6	7.5YR3/1	Very dark grey		1.8	60		1	M		3
22	80	B1	30	SCL	6	5YR3/3	Dark reddish brown		1.7	60		2	M		2
22	80	B2	60	SLC	6	5YR4/4	Reddish brown		1.5	80	Mn	2	M		1
23	88	A1	15	MHC	7	10YR3/1	Very dark grey		1.8	2		2	M		3
23	88	B21	30	MHC	8.5	10YR3/2	Very dark greyish brown		1.7	2		2	M	5 D	2
23	88	B22	50	MHC	9	10YR4/3	Brown		0.8	2		2	S/M	10 D	1
23	88	BC	90	LC	9	10YR4/4	Dark yellowish brown		0.5	2		3	S/M	10 D	0
24	184	A1	15	SL	5	5YR3/1	Very Dark Grey		1.8	40		1	M		3
24	184	A3	30	FSCL	4.5	5YR4/3	Reddish brown		1.8	40		2	M		3
24	184	B1	60	SLC	5.5	2.5YR4/4	Reddish brown		1.6	50		1	M		3
24	184	BC	80	SCL	6	10YR4/6	Dark yellowish brown	Red	0.9	80	Mn	0	S/M		1
25	187	A1	15	SL	4.5	5YR3/3	Dark reddish brown		1.9	80		1	M		3
25	187	A3	30	SCL	4.5	5YR4/4	Reddish brown		1.8	80		0	M		3
25	187	B2	60	SLC	4.5	5YR4/6	Yellowish red		1.5	90		1	S/M		2
25	187	B2C	100+	SLC	4.5	5YR5/6	Yellowish red		1.5	95		1	D		1
26	182	A11	15	SL	6	5YR3/1	Very Dark Grey		1.8	30		1	M		3
26	182	A12	30	FSL	6	5YR4/2	Dark reddish grey		1.8	50		2	M		3
26	182	B1	60	FSCL	8	5YR4/6	Yellowish red		1.3	80		3	D		2
26	182	B2	100	SLC	8	5YR5/6	Yellowish red		1.3	40		3	D		1
27	180	A1	15	FSL	6	5YR3/1	Very Dark Grey		1.8	40		0	M		3
27	180	A3	30	FSL	7.5	5YR3/3	Dark reddish brown		1.5	80		0	S/M		3
27	180	B1	60	FSCL	8	5YR4/6	Yellowish red		1.2	80		1	S/M		2
27	180	B2	100	LSC	8	10YR5/4	Yellowish brown	Grey	0.5	80	Mn	1	D	2 D	0
27	180	C	120+	Conglomerate											
28	75	A1	15	FSL	6.5	10YR3/1	Very dark grey		1.9	40		1	M		0
28	75	A2	30	FSCL	6.5	10YR4/2	Dark greyish brown		1.8	50		1	M		0
28	75	A2	40	FSL	6.5	10YR6/2	Light brownish grey	Brown	1.8	80	Mn	2	M		0

Map ID Feb '14	Field Site ID	Horizon	Lower Depth cm	Texture	pH Water	Moist Soil Colour (Munsell)	Colour from Munsell Sheet	Mottles	SOILpak compaction score	Coarse fragments %	Mn?	Dispersion 10 minutes	Moisture	Lime % Type	Root score
28	75	B21	60	LMC	7	10YR6/2	Light brownish grey	Brown	1.6	60	Mn	2	S/M		0
28	75	B22	100	LMC	8	10YR6/2	Light brownish grey	Brown	0.5	60	Mn	2	D		0
29	79	A1	15	MHC	6	10YR3/1	Very dark grey		1.8	2		2	M		3
29	79	B2	30	HC	10	10YR4/2	Dark greyish brown		1.1	2		3	S/M	2	D
29	79	B2	60	HC	10	10YR4/3	Brown		1.0			1	S/M	10	D
29	79	B3	100	MHC	10	10YR4/4	Dark yellowish brown		0.8			0	S/M	10	D
29	79	BC	140+	MC	10	10YR4/6	Dark yellowish brown		1.5			0	S/M	5	D
30	183	A1	15	SL	5.5	10YR4/2	Dark greyish brown		1.8	60		1	M		3
30	183	A2	40	LS	5.5	10YR4/1	Dark grey		1.5	80		3	M		2
30	183	B2	60	SLC	5.5	10YR4/3	Brown	Brown	1.0	60		3	S/M		1
30	183	B3	100	SCL	5.5	10YR4/6	Dark yellowish brown	Grey	0.8	60	Mn	3	S/M		0
30	183	BC	140+	SL	5.5	10YR4/6	Dark yellowish brown		0.5	60	Mn	3	S/M		0
31	175	A0	5	SL	6	10R3/2	Dusky red		1.8	10		0	S/M		4
31	175	A3	15	SCL	6	10R3/3	Dusky red		1.7	60		0	S/M		4
31	175	B1	35	SLC	6	10R3/4	Dusky red		1.8	10		2	S/M		4
31	175	B2	110	SLC	5	10R4/6	Red		1.3	30		0	S/M		3(60)
31	175	C	115+	Conglomerate											1
32	74	A1	15	FSCL	7	5YR3/1	Very Dark Grey		1.8	50		0	M		3
32	74	A2	30	FSCL	7	5YR3/3	Dark reddish brown		1.6	50		2	M		3
32	74	B21	60	SLC	7	5YR4/4	Reddish brown		1.6	50		2	M		2
32	74	B22	100	SLC	7	5YR4/6	Yellowish red		1.2	80		0	S/M		1
32	74	BC	140+	SLC	7	5YR4/6	Yellowish red		0.9	80			D		0
33	78	A1	15	MC	7.5	10YR3/1	Very dark grey		1.8	2		2	M		2
33	78	B2	30	MHC	10	10YR3/2	Very dark greyish brown		1.5	2		1	M	2	D
33	78	B2	60	MHC	10	10YR4/3	Brown		1.2			0	M	10	D
33	78	B3	100	MHC	10	10YR4/4	Dark yellowish brown		1.0			0	S/M	10	D
33	78	BC	140+	MC	10	10YR4/6	Dark yellowish brown		1.1			0	S/M	5	D
34	178	A1	12	SCL	7	5YR3/2	Dark reddish brown		1.8	5		0	S		3
34	178	A3	40	SCL	6.5	5YR4/4	Reddish brown		1.7	30		2	M		3
34	178	B1	60	SLC	6.5	5YR4/6	Yellowish red		1.5	20		0	S/M		2
34	178	B2	100	SLC	7.5	10YR6/6	Brownish yellow	Strong Grey	1.2	10	Mn	0	S		1
34	178	C	110+	Conglomerate											
35	73	A1	15	FSL	6	7.5YR3/1	Very dark grey		1.8	40		0	M		3
35	73	A2	30	FSCL	6	7.5YR3/3	Dark brown		1.6	50		1	M		2
35	73	B21	60	SLC	6.5	7.5YR4/6	Strong brown		1.3	60	Mn	0	S/M		2
35	73	B22	100	SLC	7.6	5YR4/6	Yellowish red		0.9	60	Mn	1	D		1
35	73	BC	140+	LMCS	8	2.5YR5/4	Reddish brown	Brown	0.8	30	Mn	1	D		1
36	72	A11	15	FSCL	6	7.5YR3/1	Very dark grey		1.8	30		1	M		3
36	72	A2	50	SLC	6.5	7.5YR4/2	Brown		1.6	30		3	M		2
36	72	B21	60	FSCL	7	7.5YR5/2	Brown	Brown	1.4	20	Mn	3	M		1
36	72	B22	80	LMCS	8.5	7.5YR4/2	Brown	Brown	1.2	20	Mn	2	S/M	1	D
36	72	BC	140+	LMCS	9.5	7.5YR4/2	Brown	Brown	0.8	40	Mn	1	S/M	1	D
37	329	A1	12	LMC	6	10YR3/2	Very dark greyish brown		0.8			2	S		2

Map ID Feb '14	Field Site ID	Horizon	Lower Depth cm	Texture	pH Water	Moist Soil Colour (Munsell)	Colour from Munsell Sheet	Mottles	SOILpak compaction score	Coarse fragments %	Mn?	Dispersion 10 minutes	Moisture	Lime % Type	Root score
37	329	B1	40	LMC	7.5	10YR4/1	Dark grey		1.0			2	S/M		2
37	329	B21	95	MC	9.5	10YR4/2	Dark greyish brown		0.7			1	S/M	10 P/D	1
37	329	B22	140+	LMC	9.5	10YR5/3	Brown		0.9			0	S/M	5 P/D	1(120)
38	26	A1	12	CL	5	5YR3/2	Dark reddish brown		1.2	5		0	S/M		1
38	26	B21	30	HC	7.5	2.5YR3/3	Dark reddish brown		0.5			2	M		1
38	26	B22	60	HC	8.5	5YR3/3	Dark reddish brown		1.2			1	M		1
38	26	B23	140+	MC	10	5YR4/3	Reddish brown		1.3			0	M	3 P/D	0
39	28	A0	15	FSL	5.5	2.5YR4/2	Weak red		1.8	20		2	S		4
39	28	A3	30	SCL	4.5	2.5YR5/4	Reddish brown		1.8	70		0	S		4
39	28	B2	60	LC	5	2.5YR4/8	Red		1.7	80		0	S		3
39	28	C	85+	Conglomerate 3% soil											2
40	186	A11	15	SL	5.5	7.5YR3/1	Very dark grey		1.8	80		0	M		3
40	186	A12	30	SL	5.5	7.5YR3/2	Dark brown		1.7	80		3	M		3
40	186	B1	60	FSCl	5.5	7.5YR4/3	Brown		1.3	80		1	S/M		2
40	186	B2C	80+	SLC	5.5	7.5YR4/4	Brown		1.0	95		0	D		1
41	185	A1	15	SCL	6	10YR3/1	Very dark grey		1.8	60		0	M		3
41	185	A2	30	SLC	6	10YR4/1	Dark grey		1.6	80		3	M		2
41	185	B2	50	SLC	6	10YR5/4	Yellowish brown		1.5	80		0	M		1
41	185	C	80+	SLC	6	10YR5/6	Yellowish brown	Red	0.8	80		0	M		1
42	174	A11	12	SCL	6.5	5YR2.5/1	Black		1.8	10		0	S/M		4
42	174	A12	25	SCL	6.5	5YR2.5/2	Dark Reddish Brown		1.7	20		0	M		4
42	174	B1	45	SLMC	7	5YR3/3	Dark reddish brown		1.1	10		2	M		3
42	174	BC	60					Grey Yellow		95					
42	174	C	65+												
43	177	A0	8	SL	6	2.5YR3/2	Dusky Red		1.8	10		0	S/M		4
43	177	A11	15	SL	5.5	2.5YR3/4	Dark reddish brown		1.7	10		0	S/M		3
43	177	A12	30	SCL	5.5	2.5YR3/4	Dark reddish brown		1.6	10		0	M		3
43	177	A3	55	SCL	5.5	5YR5/6	Yellowish red		1.5	20		1	S		3
43	177	B2	90	SCL	5.5	2.5YR4/6	Red		1.1	22	Mn	0	S		2
43	177	BC	100	SLC	5.5					80					
43	177	C	105+	Conglomerate											
44	71	A1	10	FSL	6	7.5YR3/1	Very dark grey		1.8	40		0	M		4
44	71	A2	30	FSCl	6	7.5YR3/2	Dark brown		1.7	50		0	M		3
44	71	B2	60	SLC	7	7.5YR6/2	Pinkish grey		1.5	60	Mn	0	S/M		1
44	71	B3	90+	SCL	7	7.5YR6/1	Grey	Brown	1.1	80	Mn	0	D		1
45	77	A11	15	MHC	6	10YR3/1	Very dark grey		1.8	5		1	M		3
45	77	B2	30	HC	9	10YR3/2	Very dark greyish brown		1.7	1		1	M	30	2
45	77	B2	60	HC	10	10YR4/1	Dark grey		1.5	1	Mn	2	S/M	5 D	1
45	77	B3	100	LMC	10	10YR4/3	Brown		1.5	0		3	S/M	5 D	0
45	77	BC	120+	LMC	10	10YR4/4	Dark yellowish brown		1.5	0		3	S/M	10 D	0
46	25	A1	10	MC	6	10YR3/2	Very dark greyish brown		1.3	2		1	S/M		2
46	25	B21	50	MHC	8	10YR4/2	Dark greyish brown		1.2			1	M		0

Map ID Feb '14	Field Site ID	Horizon	Lower Depth cm	Texture	pH Water	Moist Soil Colour (Munsell)	Colour from Munsell Sheet	Mottles	SOILpak compaction score	Coarse fragments %	Mn?	Dispersion 10 minutes	Moisture	Lime % Type	Root score
46	25	B22	85	MHC	9	10YR4/3	Brown		1.4			0	M	1 D	0
46	25	B23	140+	LMC	10	10YR4/3	Brown		1.6			0	M	1 D	0
47	24	A1	15	MC	6	10YR3/1	Very dark grey		1.3	2		3	M		0
47	24	B21	55	MHC	8.5	10YR4/3	Brown		1.7			2	M		0
47	24	B22	95	LMC	10	10YR4/3	Brown		1.4			1	W	2 D	0
47	24	B23	140+	Too Wet										1 D	
48	27	A1	12	LMC	5.5	7.5YR3/2	Dark brown		0.7	1		0	S		1
48	27	B1	45	MC	7	7.5YR4/3	Brown		1.3	1		0	M		1
48	27	B21	90	HC	8.5	7.5YR4/3	Brown		1.2			1	M	2 D	1(70)
48	27	B22	140+	LMC	9	7.5YR4/3	Brown		1.2			0	M	2 D	
49	29	A1	10	LC	4.5	7.5YR3/2	Dark brown		0.7	3		0	S		1
49	29	B1	45	SLC	6	7.5YR4/3	Brown		1.1	5		0	M		1
49	29	B21	95	LMC	7.5	7.5YR5/4	Brown	Strong Grey	0.5	5		0	M		1
49	29	B22	130	LC	7.5	10YR5/2	Greyish brown		1.1	0		0	S/M	15 P/D	0
49	29	C	140+	Conglomerate											
50	97	A1	15	FSCl	6.5	2.5YR3/2	Dusky Red		1.8	90		1	M		3
50	97	A3	30	SLC	5	2.5YR3/3	Dark reddish brown		1.7	80		1	M		2
50	97	B2	50	LMC	5	2.5YR4/6	Red		1.5	90		2	M		1
50	97	BC	80+	SLC	6	2.5YR4/6	Red	Grey	1.3	80		2	S/M		0
51	96	A11	15	FSCl	6.5	7.5YR2.5/1	Black		1.8	80		1	M		3
51	96	A12	30	FSCl	6	7.5YR4/1	Dark grey		1.7	80		2	M		3
51	96	A2	40	LFS	6	7.5YR6/1	Grey		1.5	90		3	M		2
51	96	B2	60	MHC	7.5	7.5YR5/6	Strong brown	Grey	1.0	30		2	S/M		1
51	96	BC	80+	LC	7.5	7.5YR6/1	Grey	Brown	0.5	30		1	S/M		0
52	172	A1	10	SL	4.5	7.5YR3/3	Dark brown		1.7	50		1	M		2
52	172	B1	35	SLC	5	5YR4/4	Reddish brown		1.6	70		1	M		2
52	172	B21	70	LSC	6.5	2.5YR4/6	Red		1.6	70		0	M		1(50)
52	172	B22	100	LSC	6	2.5YR4/6	Red	Grey	1.4	80		0	M		
52	172	BC	140+		5.5	7.5YR5/6	Strong brown	Strong Grey		90		2	W		
53	89	A1	15	SL	6	10YR2/2	Very dark brown		1.8	30		1	M		3
53	89	A2	50	LS	7	10YR6/1	Grey	Brown	1.5	30		3	M		1
53	89	B2	70	SC	8	10YR5/6	Yellowish brown	Grey	0.8	10	Mn	2	M		0
53	89	C	140+	SCL	8	10YR5/6	Yellowish brown	Red	0.5	20	Mn	0	M		0
54	176	A11	5	SCL	5	2.5YR2.5/2	Very dusky red		1.7	20		0	S/M		4
54	176	A12	20	SCL	5.5	2.5YR2.5/2	Very dusky red		1.7	40		0	M		3
54	176	B1	40	LC	5.5	2.5YR3/4	Dark reddish brown		1.6	40		0	S/M		3
54	176	B21	60	LC	4.5	2.5YR4/6	Red	Red Yellow	1.5	20		0	S/M		3
54	176	B22	90	LC	4.5	2.5YR4/6	Red	Strong Grey	1.4	70		0	S		2
54	176	C	110+	Conglomerate											
55	70	A11	15	FSCl	6.5	5YR3/1	Very Dark Grey		1.8	50		0	M		3
55	70	A12	30	FSCl	6.5	5YR3/3	Dark reddish brown		1.6	50		3	M		2
55	70	A2	50	FSL	6.5	7.5YR5/3	Brown	White	1.5	80	Mn	2	S/M		1
55	70	B2	80	HC	8	10YR5/4	Yellowish brown	Brown	0.5	3		0	S/M	3 N	1

Map ID Feb '14	Field Site ID	Horizon	Lower Depth cm	Texture	pH Water	Moist Soil Colour (Munsell)	Colour from Munsell Sheet	Mottles	SOILpak compaction score	Coarse fragments %	Mn?	Dispersion 10 minutes	Moisture	Lime % Type	Root score
55	70	B3	140+	SLC	8.5	10YR6/1	Grey	Brown	0.8	10		0	S/M	1 D	1
56	76	A1	15	SLC	5	10YR3/1	Very dark grey		1.8	5		1	M		3
56	76	B21	30	LMC	7.5	10YR5/2	Greyish brown		1.6	1		2	M		2
56	76	B22	60	HC	9	10YR4/2	Dark greyish brown		1.5	1		2	S/M	1 D	1
56	76	B3	100	LMC	9	10YR4/3	Brown		1.5	1		0	S/M	5 N	1
56	76	C	140+	LMC	9	10YR4/4	Dark yellowish brown	Brown	1.5	6	Mn	0	S/M	5 N	1
57	330	A1	15	LMC	6	7.5YR3/2	Dark brown		0.8			2	S		3
57	330	B1	45	MC	8	7.5YR4/2	Brown		1.2			1	S/M		1
57	330	B2	140+	LMC	9	7.5YR4/3	Brown		1.0			0	S/M	10 D	1
58	331	A1	15	LMC	7	7.5YR4/2	Brown		0.3			0	D		2
58	331	B1	35	MC	8	7.5YR4/2	Brown		0.8			2	S		2
58	331	B21	60	MC	10	7.5YR4/3	Brown		0.9			0	S/M	5 D	1
58	331	B22	140	LC	10	7.5YR4/4	Brown		1.3			0	S/M	20 D/P	1(75)
59	23	A1	10	MC	5.5	10YR3/1	Very dark grey		1.8	2		0	M		0
59	23	B21	60	MHC	9	10YR4/2	Dark greyish brown		1.6			0	M		0
59	23	B22	115	MHC	10	10YR4/3	Brown		1.6			0	M	3 D	0
59	23	B23	140+	Too Wet	10	10YR4/3	Brown					0	W	1 D	0
60	22	A1	15	MC	5.5	10YR3/1	Very dark grey		1.9	1		2	M	0	1
60	22	B21	70	MC	9	10YR3/1	Very dark grey		1.8			1	M	0	
60	22	B22	140+	LMC	10	10YR4/2	Dark greyish brown		1.5			0	W	5 D	
61	30	A1	20	MHC	6	7.5YR4/2	Brown		0.8	1		3	S		1
61	30	B21	65	MHC	8.5	7.5YR5/4	Brown		1.4			2	M		1(55)
61	30	B22	85	MC	10	7.5YR4/4	Brown		1.4			1	M	2 D	
61	30	B23	140+	LMC	10	7.5YR4/3	Brown		1.6			1	M	3 D	
62	261	A1	15	FSCL	4.5	7.5YR3/2	Dark brown		1.5	10		0	S/M		2
62	261	A2	20	FSCL	5	7.5YR4/2	Brown		1.3	10		3	S/M		2
62	261	B21	30	MHC	7	7.5YR3/1	Very dark grey		1.3	10		3	S/M		1
62	261	B22	60	MHC	9	7.5YR4/3	Brown		1.5			0	M		2
62	261	2A1	120	SLC	9	7.5YR4/4	Brown		1.2			0	S/M	10 N	1
62	261	2C	140+	SCL	9	7.5YR5/4	Brown		0.8			0	D		0
63	173	A1	22	CS	5	7.5YR4/2	Brown		1.7	10		2	M		2
63	173	2A1	32	CL	5.5	7.5YR3/2	Dark brown		1.3	5		1	W		2
63	173	2A2	47	CL	6	7.5YR4/3	Brown		1.0	10		3	W		1
63	173	2B21	62	MC	7	10YR5/6	Yellowish brown	Strong Grey	0.4			3	W		1
63	173	2B22	130+	LMC	7	10YR4/6	Dark yellowish brown	atchy Strong Gr	0.3		Mn	2	M(90)SM		1(90)
64	95	A1	20	SLC	5.5	7.5YR3/1	Very dark grey		1.8	90		1	M		3
64	95	A2	40	FSL	5.5	7.5YR3/2	Dark brown		1.7	90		2	M		3
64	95	B1	50	SLC	6	5YR5/6	Yellowish red		1.0	90		3	M		2
64	95	B2	100	LMC	6	2.5YR3/6	Dark red	Brown	0.5	90		3	S/M		0
64	95	BC	130	SLC	6.5	2.5YR6/3	Light reddish brown	Red	0.5	90	Mn	2	S/M		0
65	90	A1	10	SL	5.5	10YR3/2	Very dark greyish brown		1.8	20		2	M		3
65	90	A2	30	LC	6	10YR4/2	Dark greyish brown	Grey	1.6	50		3	M		3
65	90	A2	35	CS	6	G26/10G	Greenish Grey	Brown	1.5	80	Mn	3	M		1

Map ID Feb '14	Field Site ID	Horizon	Lower Depth cm	Texture	pH Water	Moist Soil Colour (Munsell)	Colour from Munsell Sheet	Mottles	SOILpak compaction score	Coarse fragments %	Mn?	Dispersion 10 minutes	Moisture	Lime % Type	Root score
65	90	B21	60	SLC	7.5	10YR5/1	Grey	Brown	0.8	20	Mn	2	S/M		1
65	90	B22	80	SLC	9.5	10YR4/4	Dark yellowish brown	Grey	0.5	20	Mn	2	S/M		0
65	90	BC	100+	SCL		10YR3/4	Dark Yellowish brown	Grey	0.5	30			S/M		0
66	179	A11	10	SL	6	7.5YR4/1	Dark grey		1.6	30		1	M		3
66	179	A2	30	LFS	4.5	7.5YR5/2	Brown		1.5	30		3	M		3
66	179	A2	50	LFS	6	7.5YR6/2	Pinkish grey		1.5	50		3	D		2
66	179	B2	80	FSCl	6	7.5YR5/4	Brown		1.3	30		1	D		1
66	179	C	140+	FSCl		7.5YR5/6	Strong brown	Grey	0.9			1			
67	69	A11	10	FSL	6.5	7.5YR3/1	Very dark grey		1.8	40		2	M		3
67	69	A12	30	FSCl	5.5	7.5YR3/2	Dark brown		1.8	60		2	M		3
67	69	A2	60	FSCl	5.5	7.5YR6/1	Grey		1.6	80	Mn	2	S/M		2
67	69	B2	80	SLC	7	7.5YR6/2	Pinkish grey	Brown	1.2	60		3	S/M		1
67	69	BC	140+	SLC	7.5	7.5YR5/6	Strong brown	Grey	1.0	30		3	S/M		1
68	309	A1	11	SCL	6	7.5YR4/2	Brown		1.7	5		2	M		3
68	309	B21	23	LMC	6.5	10YR5/2	Greyish brown		0.3			3	D		2
68	309	B22	65	LC	7	10YR5/3	Brown		0.4			2	S		1
68	309	2B	85	LC	8	10YR5/3	Brown		0.1	25	Mn	2	S		1(75)
68	309	3B	140+	ZLC	8.5	10YR6/6	Brownish yellow	Strong Grey	0.7	5		0	S/M	5 agments	
69	308	A1	15	SCL	5	7.5YR4/3	Brown		1.6	2		1	M		3
69	308	A2	30	FSCl	5.5	10YR5/3	Brown		1.2	4		3	S		2
69	308	B1	60	LC	7	2.5YR5/2	Weak red		0.5			3	S		2
69	308	B21	70	LMC	7.5	2.5YR5/2	Weak red		0.4			1	S		1
69	308	B22	140+	LC	7.5	10YR4/2	Dark greyish brown	Slight Yellow	0.3	30	Mn	0	S		1(100)
70	68	A11	10	MHC	6	7.5YR3/1	Very dark grey		1.8	2		2	M		3
70	68	A12	30	HC	8.5	7.5YR3/2	Dark brown		1.5	2		3	M	1 N	2
70	68	B2	60	HC	10	7.5YR3/3	Dark brown		1.3	5		3	S/M	20 D	1
70	68	BC	140+	MHC	10	7.5YR3/3	Dark brown		1.1	2		1	S/M	1 D	0
71	310	A1	15	MC	7	10YR3/2	Very dark greyish brown		1.0			3	M		2
71	310	B1	50	MHC	9.5	10YR3/2	Very dark greyish brown		1.0			2	M	5 D	3
71	310	B21	85	MHC	9.5	7.5YR4/3	Brown		1.1			0	M	15 D	2
71	310	B22	140+	MC	9.5	7.5YR4/3	Brown		1.2			0	M	10 D	2
72	332	A1	7	MC	7	7.5YR4/1	Dark grey		1.5			0	D		2
72	332	A3	28	MC	7.5	7.5YR4/1	Dark grey		0.8			1	S		3
72	332	B21	80	MC	9.5	7.5YR4/1	Dark grey		1.0			2	S/M	5 D	2
72	332	B22	140	LMC	9	7.5YR4/4	Brown		0.8			0	S/M	5 D/P	1(95)
73	32	A1	15	SCL	5	5YR3/2	Dark reddish brown		1.7	5		0	S/M		2
73	32	B21	40	LC	6	5YR4/6	Yellowish red		1.8	5		0	M		1
73	32	B22	70	LC	6	7.5YR6/6	Reddish yellow	Yellow	1.4	3	Mn	0	M		1(60)
73	32	C	80+	Sandstone											
74	31	A11	9	SCL	4.5	7.5YR3/2	Dark brown		1.7	3		0	S/M		1
74	31	A12	30	SCL	5.5	7.5YR4/3	Brown		1.3	5		2	M		0
74	31	B21	60	LMC	7	5YR4/4	Reddish brown	Grey	1.2			1	M		0
74	31	B22	90	LMC	7	10YR4/4	Dark yellowish brown		1.1	3	Mn	0	M		0

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74	31	B23	140+	LMC	7	10YR5/6	Yellowish brown	Grey	0.7			0	M		0
75	260	A1	15	FSCl	4.5	7.5YR3/2	Dark brown		1.6	1		2	S/M		2
75	260	B21	30	MHC	7.5	7.5YR4/2	Brown		1.4			3	M		2
75	260	B22	60	MHC	9	7.5YR4/3	Brown		1.4			2	M		2
75	260	C	80	LC	9	7.5YR4/2	Brown		1.6			0	M		3
75	260	2A1	100	SLC	9	10YR4/4	Dark yellowish brown		0.5			0	S/M		0
75	260	2B2	140+	MC	9	10YR4/3	Brown		1.5			0	M		0
76	98	A1	15	ZLC	5.5	7.5YR3/2	Dark brown		1.8	0		1	M		3
76	98	A3	30	MHC	6	7.5YR4/3	Brown		1.6	0		3	M		2
76	98	B2	50	HC	8.5	10YR4/3	Brown		1.5	0		2	M		1
76	98	B3	60	LC	10	10YR4/4	Dark yellowish brown	Grey	0.3	10	Mn	0	D	20 D	0
76	98	C	62+	Rock											
77	94	A1	15	SCL	6	10YR3/2	Very dark greyish brown		1.6	20		2	M		3
77	94	A2	30	LSC	6.5	10YR3/3	Dark Brown		1.5	20		2	M		2
77	94	A2	35	CS	6.5	G2.5/10G		Brown	1.3	20		3	W		2
77	94	B2	60	MHC	7.5	10YR5/2	Greyish brown	Brown	0.5	10	Mn	3	M		0
77	94	B22	100	MC	7.5	10YR5/2	Greyish brown	Brown	0.8	20	Mn	2	M		0
77	94	D	140+	SLC	8	5YR4/6	Yellowish red		1.0	10		2	M		0
78	93	A1	15	SCL	5.5	10YR2/2	Very dark brown		1.7	10		2	M		3
78	93	A2	30	SLC	6	10YR4/2	Dark greyish brown		1.6	10		2	M		2
78	93	A2	35	SCL	6			Brown	1.4	10	Mn	3	M		0
78	93	B2	60	MHC	6	10YR4/6	Dark yellowish brown	Grey	0.5	10	Mn	3	S/M		0
78	93	C	62+	Rock											
79	91	A	15	SL	6	7.5YR3/1	Very dark grey		1.8	60		0	M		3
79	91	A3	30	SCL	6	7.5YR4/3	Brown		1.7	80		3	M		3
79	91	B1	50	LSC	6	7.5YR4/4	Brown		1.7	80		1	M		2
79	91	B2	60	LC	6	5YR4/4	Reddish brown		1.7	80		0	M		2
79	91	C	140+	SLC	6	2.5YR5/3	Reddish brown	Red	0.5	80		0	S/M		1
80	171	A1	15	SCL	5.5	5YR2.5/2	Dark Reddish Brown		1.7	10		2	S		3
80	171	B1	40	SCL	6	5YR4/4	Reddish brown		1.6	20		0	S/M		3
80	171	B2	90	SLC	7.5	7.5YR4/6	Strong brown	Yellow	1.6	15	Mn	0	S		1
80	171	C	95+	Conglomerate											
81	66	A1	10	FSL	5.5	5YR3/2	Dark reddish brown		1.8	70		0	M		3
81	66	B1	40	FSCl	5.5	5YR4/4	Reddish brown	Light Grey	1.8	50		2	M		3
81	66	B21	70	LSC	5.5	2.5YR4/4	Reddish brown		1.0	30		0	S/M		2
81	66	B22	100	SLC	5	2.5YR5/3	Reddish brown	Red	0.8	50		0	S/M		1
81	66	BC	140+	SLC	4.5	2.5YR7/1	Light reddish Grey	Red	0.5	50		0	S/M		0
82	67	A11	10	FSL	5.5	7.5YR2.5/2	Very dark brown		1.8	30		0	M		3
82	67	A12	40	FSCl	6	7.5YR3/2	Dark brown		1.8	30		0	M		3
82	67	B2	60	SLC	6.5	7.5YR4/4	Brown	Red	1.3	50		1	S/M		2
82	67	BC	100+	SLC	8	7.5YR4/6	Strong brown	Grey	1.0	50	Mn	1	S/M		1
83	314	A1	15	MHC	7.5	7.5YR2.5/1	Black		0.8			3	M		3
83	314	B21	90	MHC	10	7.5YR4/1	Dark grey		1.1			2	M	2 D	3

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83	314	B22	140+	MC	10	7.5YR4/2	Brown		0.9			1	S/M	5 D	2
84	315	A1	10	MHC	7.5	7.5YR3/2	Dark brown		0.5			3	M		3
84	315	B1	50	MHC	8	7.5YR3/2	Dark brown		1.1			2	M		3
84	315	B21	80	MC	9	7.5YR4/3	Brown		0.8			0	S/M	10 D/P	2
84	315	B22	140+	LMC	8	7.5YR4/4	Brown		1.1			0	S	10 P	1(105)
85	46	A1	8	MC	6.5	7.5YR3/1	Very dark grey		1.5			0	S/M		3
85	46	B1	20	MHC	9.5	7.5YR3/2	Dark brown		1.8			0	M	1 D	3
85	46	B21	40	MHC	9	7.5YR4/2	Brown		1.6			0	M	2 D	2
85	46	B22	95	MHC	9	7.5YR4/3	Brown		1.7			0	M	2 D	1
85	46	B23	140+	MHC	9.5	5YR4/3	Reddish brown		1.5			0	M	5 D	1(115)
86	102	A1	15	ZLC	6	10YR3/2	Very dark greyish brown		1.8			2	M		3
86	102	B2	40	MHC	7.5	10YR5/2	Greyish brown		1.5			3	M		2
86	102	D1	60	FSCL	10	10YR4/6	Dark yellowish brown	Grey	0.5	20	Mn	0	D	10 D	1
86	102	D2	100+	FSCL	10	10YR3/6	Dark yellowish brown	Grey	0.5	10	Mn	1	D	10 D	0
86	102		105+	Rock											
87	92	A1	15	SL	6	7.5YR3/2	Dark brown		1.8	80		0	M		3
87	92	A3	30	SCL	6	7.5YR3/3	Dark brown		1.6	80		2	M		3
87	92	B1	50	SLC	7	5YR3/4	Dark reddish brown		1.6	80		3	M		2
87	92	B2	60	LC	7	5YR4/4	Reddish brown		1.3	80		2	M		2
87	92	B3	100	SLC	7	5YR4/6	Yellowish red	Grey	1.0	80		2	M		1
87	92	C	140+	SLC	6	10YR6/1	Grey	Brown	0.5	80		3	M		0
88	65	A1	10	FSL	5.5	5YR3/3	Dark reddish brown		1.8	60		2	M		2
88	65	B1	40	SLC	5.5	5YR4/4	Reddish brown		1.8	60		0	M		0
88	65	B21	60	SLC	5.5	2.5YR3/6	Dark red	Yellow	1.2	60		2	M		2
88	65	B22	140+	SLC	5.5	2.5YR3/6	Dark red	Grey	1.6	30		1	M		1
89	64	A1	15	SCL	5.5	10YR3/2	Very dark greyish brown		1.8	20		0	M		4
89	64	A3	30	SCL	6	10YR4/2	Dark greyish brown		1.6	15		1	M		2
89	64	B2	60	LMC	6.5	10YR5/1	Grey	Yellow	0.4	20	Mn	2	S/M		1
89	64	C	65+	Conglomerate											
90	63	A1	15	FSCL	5.5	7.5YR4/2	Brown		1.8			1	M		3
90	63	B21	40	HC	6	10YR5/2	Greyish brown		0.8			1	M		2
90	63	B22	70	HC	8	2.5YR5/2	Weak red		0.5	10	Mn	1	M		1
90	63	BC	100+	SLC	8	10YR6/3	Pale brown	Yellow	0.7	40	Mn	2	S		0
91	313	A1	15	MC	7.5	7.5YR3/1	Very dark grey		1.2			3	M		2
91	313	B1	30	MHC	10	7.5YR3/1	Very dark grey		1.3			2	M	2 D	2
91	313	B2	60	MC	10	7.5YR3/2	Dark brown		1.2			2	M	10 D/P	1
91	313	B3	140+	MC	10	7.5YR4/3	Brown		1.1			3	M	20 D/P	1(85)
92	36	A1	15	MC	6.5	7.5YR3/2	Dark brown		1.8	3		2	S		1
92	36	B21	45	MHC	8.5	7.5YR4/2	Brown		1.9	1		0	M		0
92	36	B22	140+	LMC	10	7.5YR4/3	Brown		1.8	0		0	M	1 D	0
93	33	A11	14	SCL	5.5	2.5YR3/4	Dark reddish brown		1.8	20		0	S/M		4
93	33	A12	30	SCL	5	2.5YR4/4	Reddish brown		1.8	60		1	M		3
93	33	B1	60	SCL	5	2.5YR4/3	Reddish brown		1.8	70		0	M		3

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93	33	C	65+	Conglomerate											
94	101	A1	20	FSL	6	7.5YR3/1	Very dark grey		1.8	80		1	M		3
94	101	A2	60	SLC	6.5	7.5YR5/1	Grey		1.6	80		3	M		2
94	101	B2	80	MHC	7.5	10YR5/2	Greyish brown	Brown	1.3	60	Mn	3	M		1
94	101	C	100+	SLC	7.5	10YR5/8	Yellowish brown	Grey	0.5	90	Mn	2	S/M		0
95	103	A1	15	FSL	5.5	7.5YR4/1	Dark grey		1.8	30		1	M		1
95	103	B2	50	LMC	6	7.5YR4/6	Strong brown		1.5	10		1	M		1
95	103	C	80	LC	6	7.5YR4/6	Strong brown	Grey	1.5	30	Mn	1	M		1
95	103	2A1	100	FSL	6	7.5YR4/6	Strong brown	Grey	0.8	20	Mn	2	M		0
95	103	2B2	140+	MC	6	7.5YR5/6	Strong brown	Grey	0.8	20	Mn	2	S/M		0
96	104	A1	10	SL	5	7.5YR3/2	Dark brown		1.8	40		2	M		3
96	104	A2	30	LS	5.5	7.5YR5/2	Brown		1.6	40		2	M		1
96	104	A2	40	SL	7	7.5YR7/1	Light grey	Brown	1.3	80		2	M		1
96	104	B2	60	LMC	7	7.5YR4/6	Strong brown	Grey	0.8	20	Mn	2	M		0
96	104	C	140+	SLC	7.5	7.5YR4/6	Strong brown		0.5	20		2	M		0
97	170	A11	12	SCL	6.5	2.5YR3/2	Dusky Red		1.8	20		0	M		4
97	170	A12	27	SCL	6.5	2.5YR3/2	Dusky Red		1.7	40		0	M		4
97	170	B1	42	SCL	7	2.5YR4/6	Red		1.6	70		1	S/M		3
97	170	BC	50												1
97	170	C	65+	Sandstone/ Conglomerate											
98	273	A1	15	SL	5	10YR3/2	Very dark greyish brown		1.3	60		0	D		2
98	273	A2	30	LS	4.5	10YR4/2	Dark greyish brown		1.3	80		0	S/M		2
98	273	A2	60	LS	4.5	10YR5/1	Grey		1.4	80		2	M		2
98	273	B2	100	LC	6	10YR4/6	Dark yellowish brown	Grey	0.9	50		3	M		1
98	273	C	120+	SCL	7	10YR4/6	Dark yellowish brown	Red	0.5	90	Mn	2	S/M		0
99	272	A1	15	FSL	5	7.5YR3/2	Dark brown		1.7	80		0	D		3
99	272	A2	30	FSC	5	7.5YR4/2	Brown		1.6	80		0	S/M		3
99	272	B2	60	SLC	6.5	2.5YR3/4	Dark reddish brown		1.6	80		0	M		2
99	272	B3	100	SLC	7	2.5YR7/1	Light reddish Grey	Brown	1.5	90		2	M		1
99	272	C	120	SL	6.5	2.5YR7/1	Light reddish Grey	Brown	0.5	100	Mn	2	M		0
100	271	A11	15	FSL	5.5	10YR3/2	Very dark greyish brown		1.8	80		0	D		3
100	271	A12	30	FSCL	6	10YR3/2	Very dark greyish brown		1.7	80		0	S/M		3
100	271	A2	60	FSL	6	10YR5/3	Brown		1.6	90		1	M		2
100	271	B2	100	SLC	5.5	10YR7/1	Light Grey	Brown	1.0	80		2	M		1
100	271	C	120	SCL	5.5	10YR7/1	Light Grey	Brown	0.5	80	Mn	0	S/M		0
101	62	A11	5	FSL	6	7.5YR3/2	Dark brown		1.8	50		0	M		3
101	62	A12	10	FSL	5.5	7.5YR4/2	Brown		1.8	50		1	M		3
101	62	A2	40	FSL	5.5	7.5YR6/2	Pinkish grey		1.7	75		2	M		1
101	62	B2	80	LSC	6	7.5YR6/1	Grey	Red	0.8	75		1	M		0
101	62	C	140	LSC	5.5	7.5YR6/1	Grey	White	1.0	30		0	M		0
102	270	A1	15	FSL	5.5	5YR3/2	Dark reddish brown		1.8	60		0	D		3
102	270	A3	30	FSCL	6.5	5YR3/3	Dark reddish brown		1.8	80		2	S/M		3

Map ID Feb '14	Field Site ID	Horizon	Lower Depth cm	Texture	pH Water	Moist Soil Colour (Munsell)	Colour from Munsell Sheet	Mottles	SOILpak compaction score	Coarse fragments %	Mn?	Dispersion 10 minutes	Moisture	Lime % Type	Root score
102	270	B2	60	SLC	8	5YR4/6	Yellowish red		1.6	80		0	M	10 N	2
102	270	B3	100	SLC	9	10YR5/4	Yellowish brown	Red	1.1	80		1	M	5 N	1
102	270	C	110	SCL	9	10YR7/1	Light Grey	White	0.5	80		3	M	10 N	0
103	277	A1	15	HC	7	7.5YR3/1	Very dark grey		1.8			0	S/M		2
103	277	B21	40	HC	9	7.5YR3/3	Dark brown		1.7			2	S/M	2 N	2
103	277	B22	60	MHC	9	7.5YR4/3	Brown		1.1			0	S/M	20 N	1
103	277	B3	100	MC	9	7.5YR4/4	Brown		1.0			0	D	10 N	1
103	277	2B	140+	MHC	9	7.5YR5/4	Brown		0.8			2	D	60 N	0
104	45	A1	10	MC	6.5	10YR3/2	Very dark greyish brown		1.5	10		0	S		2
104	45	B21	70	MHC	8.5	10YR4/2	Dark greyish brown		1.3			0	M	3 D	2
104	45	B22	140+	LMC	9.5	10YR5/4	Yellowish brown		1.6			0	M	10 D	1
105	37	A1	12	MC	7	10YR3/2	Very dark greyish brown		1.6	2		2	S/M		1
105	37	B21	40	MHC	9	7.5YR3/2	Dark brown		1.8			1	M	1 D	0.5
105	37	B22	95	MC	9	7.5YR4/3	Brown		1.3			0	M	3 D/P	0.5
105	37	B23	140+	LMC	9	7.5YR4/3	Brown		1.7			0	M	1 D	0
106	35	A11	10	SCL	6.5	10YR3/2	Very dark greyish brown		1.7	5		0	S		1
106	35	A12	22	SCL	7.5	10YR3/2	Very dark greyish brown		1.8	10		1	M		1
106	35	B21	55	HC	9.5	10YR4/3	Brown		1.4			0	M	1 D	1
106	35	B22	90	MC	9	10YR5/6	Yellowish brown	Strong Grey	1.5	10		0	M	3 D/N	1(65)
106	35	B23	140+	LMC	9	10YR5/6	Yellowish brown	Grey	1.5	5		0	S/M	5 D/N	
107	34	A1	15	SCL	6	2.5YR3/2	Dusky Red		1.8	2		0	S		4
107	34	A3	55	SCL	6.5	2.5YR3/3	Dark reddish brown		1.6	70		0	M		3
107	34	B2	95	LC	6	7.5YR5/6	Strong brown		1.2	20		0	M		3
107	34	C	90+	Conglomerate											
108	100	A1	15	FSL	6	5YR3/1	Very Dark Grey		1.8	80		2	M		3
108	100	A3	30	SLC	6.5	5YR3/3	Dark reddish brown		1.8	50		2	M		3
108	100	B2	60	MC	6.5	2.5YR4/3	Reddish brown		1.5	80	Mn	3	M		2
108	100	B2	80+	PAN	6.5	2.5YR6/1	Reddish Grey	Red	0.0	100	Mn	2	M		0
109	99	A1	15	FSL	6.5	5YR3/1	Very Dark Grey		1.8	60		2	M		3
109	99	A3	30	SLC	6.5	5YR3/2	Dark reddish brown		1.6	60		3	M		2
109	99	B2	60	MC	7	2.5YR5/3	Reddish brown	Red	1.5	60		3	M		1
109	99	C1	100	PAN	7	10YR2/1	Black	Grey	0.0	100	Mn	0	M		0
109	99	C2	120+	Cks	7	2.5YR8/1	White		0.3	80		3	W		0
110	105	A1	20	FSL	5.5	7.5YR3/2	Dark brown		0.8	50		1	M		3
110	105	A2	50	LS	6	7.5YR5/2	Brown		1.7	80		1	M		1
110	105	B2	70	LMC	6	7.5YR5/2	Brown	Red	1.1	60	Mn	2	M		0
110	105	C	120+	LMC	6	7.5YR5/2	Brown	Brown	0.8	70		2	M		0
110	105		125+	Rock											
111	274	A1	15	SL	5	7.5YR3/1	Very dark grey		1.8	80		0	S/M		3
111	274	B1	30	SCL	5.5	7.5YR3/3	Dark brown		1.7	80		0	M		3
111	274	B2	60	SLC	6	10YR5/4	Yellowish brown		1.6	80	Mn	0	M		3
111	274	B3	80	SLC	7	10YR5/8	Yellowish brown	Red Grey	1.5	60	Mn	0	M		2
111	274	C	130+	SLC	6	10YR5/8	Yellowish brown	Red Grey	1.0	30		2	M		1

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112	275	A11	15	SCL	5	2.5YR3/2	Dusky Red		1.8	60		0	S/M		3
112	275	A12	30	SCL	5.5	2.5YR3/2	Dusky Red		1.6	50		0	M		2
112	275	B2	60	LMC	6	2.5YR4/6	Red		1.5	40		0	M		2
112	275	B3	100	LC	6	2.5YR5/6	Red	Grey Red	1.3	50		0	S/M		1
112	275	C	140+	CS	5	7.5YR5/6	Strong brown	Grey	0.8	100		1	S/M		0
113	276	A1	15	SL	5.5	10YR3/2	Very dark greyish brown		1.6	60		0	D		3
113	276	A2	30	FSL	5	10YR4/2	Dark greyish brown		1.6	60		2	S/M		2
113	276	A2	60	FSL	5.5	10YR6/1	Grey		1.6	80		3	S/M		2
113	276	B21	80	SLC	5.5	10YR4/6	Dark yellowish brown	Grey	0.8	60	Mn	0	M		1
113	276	B3	100	SCL	5.5	10YR5/1	Grey	Brown	0.8	80	Mn	0	S/M		0
113	276	C	120+	SCL	4.5	10YR4/6	Dark yellowish brown	Red Grey	0.5	100	Mn	0	S/M		0
114	312	A1	12	MC	6.5	7.5YR4/2	Brown		0.3			2	M		2
114	312	B21	50	MC	10	7.5YR4/3	Brown		0.2			2	M	5 D	1
114	312	B22	70	LMC	10	10YR4/4	Dark yellowish brown		1.0			1	M	10 D	1
114	312	B23	140+	LMC	10	10YR4/3	Brown	Slight Yellow	1.2			0	S/M	20 D/P	0
115	44	A1	10	LMC	5	7.5YR3/1	Very dark grey		1.9	2		0	S		3
115	44	B21	50	MC	8.5	7.5YR3/1	Very dark grey		1.2	1		0	S		3
115	44	B22	100	LC	9.5	7.5YR4/3	Brown		1.4			0	M	1 D	1(45)
115	44	C	125+	90% Gravel											
116	38	A11	10	CL	7.5	5YR5/2	Reddish grey		1.2	3		2	S		1
116	38	A12	18	CL	7.5	5YR4/3	Reddish brown		1.4	20		1	M		0
116	38	B21	65	MHC	9	5YR4/4	Reddish brown		1.1			1	M		0
116	38	B22	140+	LMC	9.5	7.5YR5/4	Brown	Yellow	1.1			0	M	3 D	0
117	39	A0	18	SL	5	7.5YR4/3	Brown		1.8	5		0	S		4
117	39	A2	60	LS	5	7.5YR5/3	Brown		1.5	80		0	D		3
117	39	B21	95	SLC	5.5	7.5YR5/4	Brown	Grey	0.6			2	S		1
117	39	B22	130+	LC	6	7.5YR5/6	Strong brown	Strong Grey	0.8			0	S		1
118	163	A11	13	SL	5	5YR3/2	Dark reddish brown		1.8	20		0	M		2
118	163	A12	30	SL	5	5YR4/3	Reddish brown		1.5	20		1	M		3
118	163	B21	60	LMC	5.5	7.5YR4/6	Strong brown		1.3	5		0	S/M		3
118	163	B22	80	LMC	5.5	10YR5/6	Yellowish brown		1.0	20		0	S		1
118	163	C	85+	Conglomerate											
119	165	A11	15	SCL	6	5YR3/2	Dark reddish brown		1.7	5		1	S/M		3
119	165	A12	45	SCL	5.5	5YR4/3	Reddish brown		1.7	10		0	M		3
119	165	B21	60	LC	6	5YR4/6	Yellowish red		1.4	70		0	S/M		2
119	165	B22	80	LC	7	7.5YR5/6	Strong brown		1.6	40		0	S		2
119	165	C	85+	Conglomerate											
120	162	A11	5	SCL	5.5	5YR3/2	Dark reddish brown		1.8	10		1	M		3
120	162	A12	18	SCL	4.5	5YR3/3	Dark reddish brown		1.6	10		0	M		3
120	162	B21	60	LC	4.5	5YR4/6	Yellowish red		1.5	20		0	M		3
120	162	B22	110	LC	5	7.5YR5/8	Strong brown		1.2	40		0	S		1
120	162	C	120+	Conglomerate											
121	169	A11	12	SCL	6	2.5YR3/2	Dusky Red		1.7	5		0	S		2

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121	169	A12	35	SCL	5.5	2.5YR3/3	Dark reddish brown		1.7	5		0	S/M		3
121	169	B1	50	LC	5	2.5YR3/4	Dark reddish brown		1.7	20		0	S		3
121	169	B21	70	LC	5	2.5YR4/6	Red		1.6	60		0	S		3
121	169	B22	105	LC	5	7.5YR5/6	Strong brown	Grey	1.5	30		0	S		1
121	169	C	110+	Sandstone											
122	298	A1	15	SL	5	5YR3/2	Dark reddish brown		1.7	80		0	D		3
122	298	A3	30	SCL	5	5YR3/3	Dark reddish brown		1.7	80		0	S/M		3
122	298	B1	60	SLC	6	5YR4/4	Reddish brown		1.6	80		0	M		2
122	298	B2	100	LMC	7	10YR5/6	Yellowish brown	Red	1.0	80	Mn	0	M		1
122	298	C	140+	MC	7	10YR7/1	Light Grey	Red	0.5	90	Mn	1	M	1 D	1
123	157	A11	18	CS	4.5	7.5YR3/2	Dark brown		1.6	40		1	M		3
123	157	A12	35	CS	6	7.5YR6/3	Light brown		1.5	20		1	M		4
123	157	A2	45	CS	6.5	7.5YR6/3	Light brown		1.5	50		1	M		2
123	157	B21	75	LC	7	10YR6/2	Light brownish grey	Yellow	0.2	25	Mn	1	S		1(60)
123	157	B22	140+	LC	7	10YR7/2	Light grey	Yellow Red	0.4	10		0	S		
124	297	A1	15	SL	4.5	10YR3/2	Very dark greyish brown		1.6	40		0	D		3
124	297	A2	40	FSL	5.5	10YR6/2	Light brownish grey		1.3	50		3	D		2
124	297	B2	60	MC	6.5	10YR4/2	Dark greyish brown	Brown	0.5	20	Mn	0	S/M		1
124	297	B3	100	FSCl	8	10YR4/3	Brown	Brown	0.5	20	Mn	0	S/M		0
124	297	C	140+	FSL	8.5	10YR4/2	Dark greyish brown	Brown	0.5	40		0	S/M	1 D	0
125	40	A1	8	FSCl	5	2.5YR3/2	Dusky Red		1.7	10		0	S/M		3
125	40	B1	25	LC	5.5	2.5YR3/3	Dark reddish brown		1.5	15		0	S/M		2
125	40	B21	70	LC	7	2.5YR4/6	Red		1.5	20		0	S/M		2
125	40	B22	100	LC	7	10YR5/6	Yellowish brown		1.5	30		0	M		1 (80)
125	40	C	105	Hard Conglomerate											
126	41	A1	12	CS	5.5	7.5YR4/2	Brown		1.7	10		0	S/M		4
126	41	B1	65	CS	6	7.5YR6/3	Light brown		1.5	60		1	D		3
126	41	C	75+	Hard Conglomerate											
127	164	A11	10	SL	5	7.5YR3/3	Dark brown		1.7	40		3	M		2
127	164	A12	20	SL	5.5	7.5YR4/6	Strong brown		1.7	60		1	M		3
127	164	B21	45	LC	5.5	7.5YR5/6	Strong brown		1.6	10		0	M		3
127	164	B22	75	LC	6.5	10YR7/8	Yellow	Red Grey	1.5	5		0	S		2
127	164	C	85+	Conglomerate							Mn				
128	168	A1	17	SL	7	2.5YR3/2	Dusky Red		1.8	20		0	S/M		4
128	168	B1	35	LMC	5.5	2.5YR3/4	Dark reddish brown		1.6	10		0	S/M		3
128	168	B21	70	LC	5.5	2.5YR4/4	Reddish brown		1.5	20		0	S/M		3
128	168	B22	120	LC	6	2.5YR4/8	Red	Yellow Grey	1.3	50		0	S		2(80)
128	168	C	125+	Sandstone											1
129	58	A11	12	CS	6	2.5YR3/2	Dusky Red		1.8			0	S		4
129	58		25		90% sandstone slabs			90% Sandstone slab				0			
129	58	B2	50	SLC	5	2.5YR4/6	Red		1.7	50		0	S		3
129	58		70+	Hard Conglomerate											
130	2	A1	10	SCL	4.5	5YR3/2	Dark reddish brown		1.2	15		0	S		

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130	2	B1	30	LC	5.0	5YR4/3	Reddish brown		1.4	40		0	M		
130	2	B21	55	LC	5.0	5YR4/4	Reddish brown		1.3	10		0	M		
130	2	B22	100	LMC	5.5	5YR4/6	Yellowish red	Yellow/Grey	0.9	10		0	M		
130	2	C	115+												
131	158	A11	10	CS	5	7.5YR3/2	Dark brown		1.7	2		2	S/M		3
131	158	A12	35	CS	6	7.5YR3/2	Dark brown		1.7			1	M		4
131	158	A3	70	LS	6	7.5YR5/4	Brown	Yellow	1.1	20	Mn	0	M		3
131	158	C	85+	Conglomerate											
132	159	A11	12	SL	6	5YR3/3	Dark reddish brown		1.7	40		0	S/M		4
132	159	A12	30	SL	4.5	5YR4/4	Reddish brown		1.5	40		3	M		2
132	159	B21	50	LMC	5	5YR5/6	Yellowish red		1.4	5		0	M		2
132	159	B22	75	LMC	6	7.5YR5/6	Strong brown		1.2	5		0	M		2
132	159	C	90+	Conglomerate											
133	161	A1	15	SL	6	5YR3/2	Dark reddish brown		1.8	60		0	M		3
133	161	A2	40	SC	6	5YR4/3	Reddish brown		1.6	40		1	M		4
133	161	B1	60	LC	7	5YR5/6	Yellowish red		1.6	20		0	M		2
133	161	B21	90	LC	7	5YR5/8	Yellowish red	Yellow Red	1.3	5		0	M		1
133	161	B22	140+	LMC	6.5	5YR5/8	Yellowish red	Grey Red	0.9			0	S/M		1 (120)
134	160	A1	15	SCL	6.5	5YR3/3	Dark reddish brown		1.8	20		1	M		3
134	160	B1	30	LC	6.5	5YR4/4	Reddish brown		1.7	20		0	M		3
134	160	B21	50	LC	6	5YR4/6	Yellowish red		1.7	40		0	M		2
134	160	B22	90	LC	6	7.5YR5/8	Strong brown	Grey	1.1	20		1	S/M		1
134	160	BC	100												1
134	160	C	105+	Conglomerate											
135	262	A1	15	FSL	5.5	2.5YR3/2	Dusky Red		1.6	60		0	D		3
135	262	A3	30	FSCL	6	5YR3/3	Dark reddish brown		1.7	60		2	S/M		3
135	262	B2	60	SLC	7	2.5YR4/4	Reddish brown		1.5	60		3	M		2
135	262	B3	100	LMC	7	10YR5/3	Brown	Brown	1.0	90		3	M		0
135	262	C	140+	LMC	5	10YR6/1	Grey	White	0.5	90	Mn	3	S/M		0
136	263	A1	15	ZCL	5	10YR3/1	Very dark grey		1.8			1	D		3
136	263	B1	30	MHC	8	10YR3/2	Very dark greyish brown		1.6			2	M		2
136	263	B2	60	MHC	9	10YR3/2	Very dark greyish brown		1.6			1	M	5 D	2
136	263	B2	100	MHC	9	10YR3/2	Very dark greyish brown		1.0			0	S/M	20 D	1
136	263	B3	140+	MHC	9	10YR4/2	Dark greyish brown		1.5			0	S/M	10 D	0
137	267	A1	15	HC	7	10YR3/1	Very dark grey		1.8			0	M		3
137	267	B1	30	HC	8.5	10YR3/1	Very dark grey		1.8			2	M		3
137	267	B2	60	HC	9	10YR3/1	Very dark grey		1.7			0	M	2 N	2
137	267	B3	100	MHC	9	10YR4/3	Brown		1.0			0	S/M	50 D	1
137	267	C	140+	MHC	9	10YR4/3	Brown		0.5			0	S/M	50 D	1
138	43	A1	8	CL	6	5YR4/3	Reddish brown		1.8	5		0	S/M		2
138	43	A3	17	LC	6	5YR3/2	Dark reddish brown		1.0	10		0	S		3
138	43	B21	50	LMC	6	5YR4/2	Dark reddish grey		1.3	1		1	S		3
138	43	B22	70	LMC	8	2.5YR4/4	Reddish brown		1.4	1		0	M		2

Map ID Feb '14	Field Site ID	Horizon	Lower Depth cm	Texture	pH Water	Moist Soil Colour (Munsell)	Colour from Munsell Sheet	Mottles	SOILpak compaction score	Coarse fragments %	Mn?	Dispersion 10 minutes	Moisture	Lime % Type	Root score
138	43	B23	140+	LC	9.5	5YR6/4	Light reddish brown	Slight Grey	1.7			0	M	10 P/D	1
139	42	A1	15	SL	4	7.5YR4/2	Brown		1.7	2		0	S/M		3
139	42	A2	38	CS	6.5	7.5YR5/3	Brown		1.4	10		1	D		1
139	42	B21	100	LC	8.5	10YR5/3	Brown	Yellow	0.7	3	Mn	0	S		1(45)
139	42	B22	135+	LC	8.5	7.5YR4/4	Brown	Grey	0.7	3		0	S/M		
140	166	A1	15	SL	6.5	7.5YR2.5/2	Very dark brown		1.8	20		0	M		4
140	166	A3	50	SL	5.5	7.5YR4/4	Brown		1.7	30		1	M		3
140	166	B21	75	LC	6	10YR5/6	Yellowish brown	Slight Grey	1.2	10		0	S/M		2
140	166	B22	90	LC	7	10YR5/6	Yellowish brown	Strong Grey	1.3	20		0	S		1
140	166	C	95+	Conglomerate											
141	57	A1	13	CS	6	7.5YR3/2	Dark brown		1.8	2		0	S/M		4
141	57	A2	30	CS	6	7.5YR5/3	Brown		0.9	20		0	S/M		2
141	57	B21	50	SLC	6.5	7.5YR5/3	Brown	Slight Orange	0.2	3		0	S		1
141	57	B22	140+	SLC	7	7.5YR5/6	Strong brown	Strong Grey	0.6	3		0	S		0.5 (90)
142	1	A1	15	ZLC	5.5	10YR4/2	Dark greyish brown		1.0			2	S		2
142	1	B21	45	LMC	7	10YR2/2	Very dark brown		0.8			0	S	0.5 H	2
142	1	B22	80	MC	9	10YR4/2	Dark greyish brown		1.5			0	S/M	5 D	2
142	1	B23	140+	LMC	9	10YR4/2	Dark greyish brown		1.8			0	M	5 D	1 (130)
143	264	A1	15	ZCL	5	10YR3/2	Very dark greyish brown		1.8			0	S/M		3
143	264	B1	30	MHC	6	10YR3/2	Very dark greyish brown		1.6			1	S/M		3
143	264	B2	60	MHC	8	2.5YR4/3	Reddish brown		1.3			1	M		2
143	264	B3	80	MHC	8.5	2.5YR4/4	Reddish brown		0.5			0	M		0
143	264	2A	110	CS	8.5	10YR2/2	Very dark brown		0.5			0	M	20 D	0
143	264	2B	140+	ZLC	8	2.5YR4/4	Reddish brown		0.5	90		3	S/M		0
144	265	A1	15	ZLC	5.5	10YR3/1	Very dark grey		1.8			0	S/M		3
144	265	B1	30	HC	7	10YR3/1	Very dark grey		1.6			0	M		3
144	265	B2	60	HC	9	10YR3/1	Very dark grey		1.6			0	M	25 N	2
144	265	B3	100	MHC	9	10YR4/3	Brown		1.4			0	M	10 N	2
144	265	C	140+	LMC	9	10YR3/4	Dark Yellowish brown		1.0			2	S/M	5 N	1
145	266	A1	15	MHC	7	10YR3/1	Very dark grey		1.8			1	S/M		3
145	266	B1	30	MHC	8.5	10YR3/1	Very dark grey		1.7			2	M		3
145	266	B2	60	MHC	9	10YR3/1	Very dark grey		1.7			0	M		2
145	266	B3	100	MHC	9	10YR3/3	Dark Brown		1.0			0	S/M	5 N	1
145	266	C	140+	MHC	9	10YR3/4	Dark Yellowish brown		1.0			0	S/M	5 N	0
146	317	A1	12	LMC	9.5	7.5YR4/2	Brown		0.6	2		0	D	5 D	3
146	317	B1	30	MC	9	7.5YR4/2	Brown		0.7			3	S	2 D	3
146	317	B21	80	MC	8.5	7.5YR4/2	Brown		0.8			0	S/M	2 D	2
146	317	B22	140+	MC	9	7.5YR4/3	Brown		1.0			0	M	2 D	1
147	47	A1	20	SLC	6	2.5YR3/2	Dusky Red		1.7	40		0	S		3
147	47	B21	60	LC	7	2.5YR3/4	Dark reddish brown		1.6	40		0	S/M		3
147	47	B22	90	LC	6.5	7.5YR4/6	Strong brown	Slight Grey	1.3	0		0	M		2
147	47	BC	140	LMC	6.5	10YR3/6	Dark yellowish brown	Grey Light	1.3			0	S/M		1(115)
147	47	C	145+	Sandstone											

Map ID Feb '14	Field Site ID	Horizon	Lower Depth cm	Texture	pH Water	Moist Soil Colour (Munsell)	Colour from Munsell Sheet	Mottles	SOILpak compaction score	Coarse fragments %	Mn?	Dispersion 10 minutes	Moisture	Lime % Type	Root score
148	48	A1	17	SCL	5.5	7.5YR3/2	Dark brown		1.8	2		0	S/M		3
148	48	2Ab	50	SCL	7.5	5YR4/3	Reddish brown		1.7	10		0	M		1
148	48	3Ab	65	SCL	7.5	5YR4/2	Dark reddish grey		1.5	3	Mn	0	M		1
148	48	4Ab	85	LC	7	5YR4/3	Reddish brown	Grey	1.5	2	Mn	0	M		0
148	48	5Ab	102	SCL	8	5YR4/3	Reddish brown		1.3			0	M		0
148	48	6Ab	130	LC	9	7.5YR5/4	Brown		1.8			1	S/M	1 D	0
149	19	A1	10	SL	4	5YR3/3	Dark reddish brown		1.8	10		0	M		2
149	19	A3	45	SL	6	5YR4/3	Reddish brown		1.7	60		0	M		1(30)
149	19	B21	60	LMC	7.5	2.5YR4/6	Red		1.3	15		0	M		
149	19	B22	90	HC	8	7.5YR6/6	Reddish yellow	Grey /Yellow	1.1			0	M		
149	19	C	110+	Sandstone											
150	20	A1	10	SCL	4.5	5YR4/3	Reddish brown		1.8	20		0	M		2
150	20	A3	25	LC	5.5	5YR4/4	Reddish brown		1.7	70		1	M		1
150	20	B21	55	LMC	7	5YR5/6	Yellowish red		1.6	50		2	M		1(35)
150	20	B22	70	LMC	7	5YR4/6	Yellowish red	Strong Grey	1.6	10		0	M		
150	20	B23	95	HC	7	7.5YR5/6	Strong brown	Grey	0.8	20		0	M		
150	20	C	100+	Conglomerate											
151	21	A1	15	SL	4	2.5YR4/3	Reddish brown		1.8	15		0	M		2
151	21	B1	55	LC	6	2.5YR4/6	Red		1.2	30		1	M		1
151	21	B2	65	LC	6	5YR5/6	Yellowish red		1.3	20		0	M		0
151	21	BC	115+												
152	56	A11	10	SL	6	7.5YR3/2	Dark brown		1.5	1		0	S		4
152	56	A12	25	CS	5.5	7.5YR2.5/1	Black		1.5	20		0	S		4
152	56	A2	55	CS	6	10YR6/3	Pale brown	Orange	1.5	80		0	D		3
152	56	C	60+	Conglomerate											
153	55	A11	10	FSL	6.5	7.5YR3/2	Dark brown		1.8			0	D		3
153	55	A12	30	SL	6.5	7.5YR3/2	Dark brown		1.5			0	S		2
153	55	A3	50	SCL	6.5	5YR3/3	Dark reddish brown		1.5	5	Mn	0	S		2
153	55	B1	72	CSL	6.5	7.5YR4/6	Strong brown	Grey	1.0	15	Mn	0	S		1
153	55	B2	100	SLC	7	2.5YR5/4	Reddish brown	Strong Red	1.0			1	S		1
153	55	C	105+	Sandstone											
154	3	A11	17	SCL	5.5	7.5YR3/2	Dark brown		1.7	1		0	M		
154	3	A12	50	CS	6.5	7.5YR5/4	Brown		1.5	1		0	M		
154	3	B21	65	LC	7.5	10YR5/3	Brown	Yellow	1.3	2		0	M		
154	3	B22	105	LC	7.5	10YR6/2	Light brownish grey	Strong Yellow	1.3	3	Mn	0	S		
154	3	C	110+	Gravel											
155	268	A1	15	HC	7	10YR3/1	Very dark grey		1.8			2	M		3
155	268	B1	30	HC	8	10YR3/1	Very dark grey		1.8			0	M		3
155	268	B2	60	HC	9	10YR3/1	Very dark grey		1.6			0	S/M		3
155	268	B3	100	MHC	9	10YR3/2	Very dark greyish brown		1.6			0	S/M	10 N	2
155	268	C	140+	MHC	9	10YR3/4	Dark Yellowish brown		1.1			0	S/M	20 N	1
156	269	A11	15	MHC	9	10YR3/1	Very dark grey		1.8	20		0	S/M		3
156	269	A12	30	MC	9	10YR3/2	Very dark greyish brown		1.8	30		0	M	5 N	3

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156	269	A3	60	MC	9	10YR4/3	Brown		1.5	40		0	M	10 N	2
156	269	B2	100	MHC	9	10YR4/3	Brown		1.8	5		0	S/M	40 N	1
156	269	B2	140+	MHC	9	10YR3/3	Dark Brown		0.8	5		0	S/M	50 N	1
157	316	A1	15	MC	6	7.5YR3/2	Dark brown		0.4			0	D		3
157	316	B21	60	MC	7.5	7.5YR3/1	Very dark grey		0.9			0	S		3
157	316	B22	90	LMC	9.5	7.5YR3/1	Very dark grey		0.7			1	S	2 P	3
157	316	B23	140+	LMC	9.5	7.5YR4/2	Brown		0.8			0	S/M	5 D/P	1
158	50	A11	5	MC	7.5	10YR3/1	Very dark grey		1.8	5		0	D		
158	50	A12	10	MC	7.5	10YR3/2	Very dark greyish brown		1.9			0	S/M		1
158	50	B1	50	MHC	9.5	7.5YR3/3	Dark brown		0.8			0	M	1 D	2
158	50	B21	80	MC	9.5	7.5YR4/3	Brown		1.4			0	M	1 D	1
158	50	B22	140+	MC					1.0			0	W	1 D	1
159	54	A1	10	LC	7.5	10YR3/1	Very dark grey		1.6	7		0	M	1 N	0
159	54	B1	25	MHC	10	10YR3/2	Very dark greyish brown		0.5			0	M	1 D	0
159	54	B21	70	MHC	10	7.5YR3/3	Dark brown		1.7			0	M	5 D	0
159	54	B22	140+	LMC	10	7.5YR3/3	Dark brown		1.8			0	W	10 D	0
160	53	A1	12	LMC	8.5	10YR3/1	Very dark grey		1.6	2		0	M	3 D	
160	53	B1	40	MC	10	10YR3/2	Very dark greyish brown		1.5			0	M	1 D	
160	53	B21	75	MHC	10	7.5YR3/3	Dark brown		1.3			0	M	10 D	
160	53	B22	140+	MC	10	7.5YR3/4	Dark brown		1.2			0	W	15 D	
161	49	A1	20	SL	6	5YR3/2	Dark reddish brown		1.5	15		0	M		4
161	49	B21	60	SLC	6.5	5YR4/4	Reddish brown		1.1	15		1	M		3
161	49	B22	125+	LC	4	7.5YR4/6	Strong brown	Slight Grey	1.3	10	Mn	0	S		2
162	18	A1	10	SCL	4	5YR3/2	Dark reddish brown		1.9	5		0	M		2
162	18	B21	40	LC	7	2.5YR4/4	Reddish brown		1.1	2		0	M		1
162	18	B22	65	LC	8	5YR4/4	Reddish brown		1.3	15	Mn	1	M		1(50)
162	18	B23	140+	LC	8.5	7.5YR5/6	Strong brown	Grey	1.2	3	Mn	0	S/M		
163	9	A1	12	SL	4.5	7.5YR4/2	Brown		1.8	2		0	S		2
163	9	B1	65	SCL	6	7.5YR4/4	Brown		1.6	15		0	M		1 (40)
163	9	B2	90	LC	7.5	10YR5/4	Yellowish brown	Grey	1.3	10		2	M		
163	9	BC	140+							90					
164	8	A1	12	SL	4.5	5YR4/3	Reddish brown		1.6	2		0	S		2
164	8	A3	32	SCL	6.5	5YR4/4	Reddish brown		1.4			1	M		1
164	8	B21	100	CL	9	7.5YR6/6	Reddish yellow		1.4	3		0	M	2 D	1
164	8	B22	140+	CL	9	7.5YR6/6	Reddish yellow			2		2	W	1 D	0
165	5	A1	12	SCL	4	2.5YR3/2	Dusky Red		1.6	20		0	S		2
165	5	B21	50	LC	6	2.5YR3/4	Dark reddish brown		1.7	15		0	M		1
165	5	B22	80	LC	5.5	2.5YR4/6	Red	Strong Yellow/Grey	1.5	25		0	M		1 (65)
165	5	BC	100	LC	5	2.5YR4/6	Red	Strong Grey	1.5	60		0	M		
165	5	Rock	105+												
166	167	A11	5	CS	7	5YR3/3	Dark reddish brown		1.7			0	M		3
166	167	A12	15	CS	6.5	5YR4/3	Reddish brown		1.7			1	M		3
166	167	A3	40	CS	6.5	5YR4/4	Reddish brown		1.6			1	M		3

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166	167	B1	65	CS	5.5	7.5YR5/6	Strong brown		0.9	5	Mn	0	S		2
166	167	C	75+	Sandstone											
167	4	A1	10	SCL	5.5	2.5YR3/2	Dusky Red		1.6	2		0	M		
167	4	A3	30	CL	7	2.5YR4/3	Reddish brown		1.5	2		0	M		
167	4	B2	60	LMC	7.5	10YR5/6	Yellowish brown		1.4	2		0	M		
167	4	BC	85		5.5	10YR5/6	Yellowish brown	Strong Grey				0	M		
167	4	C	90+	Rock											
168	51	A11	2	MC		10YR3/1	Very dark grey		1.8	1		0	D		0
168	51	A12	15	MC	7.5	10YR3/1	Very dark grey		1.6			1	S		2
168	51	B21	75	MHC	9.5	10YR3/2	Very dark greyish brown		1.6			0	M	2 D	2
168	51	B22	140+	MC	9.5	7.5YR4/4	Brown		1.8			0	M	5 D	1(80)
169	52	A11	5	LMC	7	7.5YR3/1	Very dark grey		1.8			1	S		2
169	52	A12	25	MHC	7	7.5YR3/1	Very dark grey		1.7			0	M		0
169	52	B21	60	LC	10	7.5YR3/2	Dark brown		1.6			0	M	1 D	0
169	52	B22	140+	LC	10	7.5YR3/3	Dark brown		1.5			0	M	1 D	0
170	10	A1	10	SCL	5	7.5YR4/3	Brown		1.2			0	D		3
170	10	A3	35	SCL	6	7.5YR5/4	Brown		0.9			0	D		2
170	10	B21	70	LC	6	5YR5/4	Reddish brown		0.7			0	S		2
170	10	B22	140+	LMC	9	5YR5/4	Reddish brown		1.2			0	S	2 D	2
171	11	A1	14	LC	4.5	5YR3/3	Dark reddish brown		1.8	2		0	M		1
171	11	B2	35	LC	7.5	2.5YR4/4	Reddish brown		1.8	60	Mn	1	M		1
171	11	C	50+	Hard Sandstone											
172	7	A1	12	FSL	4.5	5YR4/3	Reddish brown		1.3	5		0	S		2
172	7	B21	60	LC	7.5	7.5YR5/6	Strong brown		1.6	0		0	M		1
172	7	B22	100	MHC	7.5	7.5YR6/6	Reddish yellow		1.0	1		0	M		1
172	7	B23	110	MC	9	10YR6/6	Brownish yellow	Strong Grey	1.2	15		0	M	3 D	0
172	7	C	140+	Shale											
173	6	A1	10	SCL	4.5	5YR3/3	Dark reddish brown		1.6	2		0	M		2
173	6	A3	60	SCL	6.5	5YR4/4	Reddish brown		1.1			0	M		1
173	6	B21	95	LC	8.5	7.5YR4/4	Brown		1.3	5		0	M		1 (80)
173	6	B22	140+	LC	8	7.5YR4/4	Brown	Orange	0.8	3	Mn	0	W		
174	17	A1	12	CL	4.5	2.5YR3/3	Dark reddish brown		1.2	10		0	M		2
174	17	A3	27	LC	5.5	2.5YR4/4	Reddish brown		1.2	2		2	M		1
174	17	B2	50	LC	5.5	2.5YR4/6	Red		1.4	40		2	M		1(40)
174	17	BC	105	LC	7	2.5YR4/6	Red	Yellow	1.5	2		0	S		
174	17	C	115+	Sandstone											
175	16	A1	10	SCL	4	5YR4/3	Reddish brown		1.7	3		0	W		2
175	16	A3	35	SCL	7	5YR4/6	Yellowish red		1.6	1		0	M		2
175	16	B2	60	LC	7.5	7.5YR5/6	Strong brown		1.3	2		0	M		1
175	16	C	62+	Sandstone											
176	12	A1	12	SCL	4.5	2.5YR4/3	Reddish brown		1.4	2		0	S		2
176	12	A3	40	SCL	5.5	2.5YR4/4	Reddish brown		1.0	2		0	M		1
176	12	B21	60	LC	6.5	7.5YR6/6	Reddish yellow		1.3			0	M		1

Map ID Feb '14	Field Site ID	Horizon	Lower Depth cm	Texture	pH Water	Moist Soil Colour (Munsell)	Colour from Munsell Sheet	Mottles	SOILpak compaction score	Coarse fragments %	Mn?	Dispersion 10 minutes	Moisture	Lime % Type	Root score
176	12	B22	95	LC	6.5	7.5YR6/6	Reddish yellow		1.2	10		0	M		1 (180)
176	12	C	110+	Shale											
177	15	A1	15	SCL	5	2.5YR3/3	Dark reddish brown		0.8	1		0	W		1
177	15	B1	60	SCL	8	2.5YR4/4	Reddish brown		0.7	2		0	M	10 D	1
177	15	B21	95	LC	8	5YR4/6	Yellowish red		1.3	5	Mn	1	M	5 D	1
177	15	B22	130+	LC	8	7.5YR5/6	Strong brown		1.2	2	Mn	2	W	2 D	1(105)
178	229	A1	15	SL	6	2.5YR3/2	Dusky Red		1.9	1		0	M		4
178	229	A3	30	SCL	6	2.5YR3/4	Dark reddish brown		1.6	1		1	M		3
178	229	B2	60	SLC	7	2.5YR4/3	Reddish brown		1.6	1		1	M		2
178	229	B3	100	SCL	8	7.5YR5/8	Strong brown		1.6	1		2	M		1
178	229	2B2	140+	SLC	8	7.5YR4/6	Strong brown		1.6	1		0	M		0
179	13	A1	12	SCL	4	7.5YR3/3	Dark brown		1.6	1		0	W	O	1
179	13	A3	30	SCL	6	5YR3/3	Dark reddish brown		1.0	1		0	M	O	1
179	13	B1	60	LC	8	5YR4/4	Reddish brown		1.5	2		0	M	2 D	1 (45)
179	13	B21	105	LC	8	7.5YR5/6	Strong brown		1.3	0		0	S/M	2 D	0
179	13	B22	140+	LC	4.5	10YR5/6	Yellowish brown		1.3	0		0	S/M		0
180	228	A1	15	SL	5.5	2.5YR3/3	Dark reddish brown		1.8	10		0	S/M		4
180	228	B2	40	MC	7.5	2.5YR3/6	Dark red		1.3			0	S/M		2
180	228	B3	70	SLC	8.5	2.5YR3/4	Dark reddish brown		1.5	30		0	M		1
180	228	C	100+	SL	8.5	2.5Y6/3	Light yellowish brown	Grey	0.1	95		0	M		0
181	14	A11	18	SL	4	5YR4/4	Reddish brown		1.3	1		0	W		1
181	14	A12	35	CS	5.5	2.5YR4/6	Red		1.6	1		1	M		1
181	14	A3	50	CS	6.5	5YR5/6	Yellowish red		1.7	50		0	M		1
181	14	B2	80	LC	8	7.5YR6/6	Reddish yellow	Grey	1.2			0	M		1 (60)
181	14	C	110+	Decomposed Shale											
182	254	A11	15	MHC	7.5	7.5YR3/1	Very dark grey		1.8			2	S/M		3
182	254	A12	30	MHC	9	7.5YR3/1	Very dark grey		1.8			2	M		3
182	254	B1	60	MHC	9	7.5YR3/2	Dark brown		1.7			0	M		3
182	254	B3	100	MHC	9	7.5YR3/3	Dark brown		1.5			0	M		2
182	254	C	140+	MHC	9	7.5YR3/4	Dark brown		1.4	5	Mn	0	M		1
183	255	A11	15	MHC	7	7.5YR3/1	Very dark grey		1.8			0	S/M		3
183	255	A12	30	MHC	8	7.5YR3/2	Dark brown		1.6			0	M		2
183	255	B1	60	MHC	9	7.5YR3/3	Dark brown		1.5			2	M		2
183	255	B3	100	MC	9	7.5YR4/4	Brown		1.6			0	M		2
183	255	C	140+	MC	9	7.5YR4/6	Strong brown		1.6	10	Mn	0	M	1 D	0
184	256	A1	15	LC	4.5	7.5YR3/4	Dark brown		1.8	20		0	S/M		3
184	256	A3	30	MC	5.5	7.5YR3/4	Dark brown		1.6	20		0	M		3
184	256	B2	50	MC	7.5	7.5YR3/4	Dark brown		1.6	40		0	M		3
184	256	C	80	SCL	8.5	7.5YR4/4	Brown		1.4	90		0	M		2
184	256	2B2	100	MC	9	10YR5/6	Yellowish brown		1.4	10		0	M	5 D	1
184	256	2C	140+	SCL	9	10YR5/6	Yellowish brown		1.1	90		0	M	15 D	0
185	216	A1	15	SCL	5.5	5YR3/3	Dark reddish brown		1.8	20		3	M		3

Map ID Feb '14	Field Site ID	Horizon	Lower Depth cm	Texture	pH Water	Moist Soil Colour (Munsell)	Colour from Munsell Sheet	Mottles	SOILpak compaction score	Coarse fragments %	Mn?	Dispersion 10 minutes	Moisture	Lime % Type	Root score
185	216	A3	30	MC	7	5YR3/3	Dark reddish brown		1.5	20		2	M		3
185	216	B2	50	HC	8	5YR4/2	Dark reddish grey		1.5	40		1	M		2
185	216	B3	70	MC	9	10YR5/6	Yellowish brown	Red	1.3	40	Mn	0	S/M		1
185	216	C	120+	SCL	9	10YR5/6	Yellowish brown	Red	1.3	80	Mn	0	D	5 D	1
186	222	A1	15	SL	5.5	2.5YR3/2	Dusky Red		1.8	15		3	M		3
186	222	B1	30	SCL	5.5	2.5YR4/4	Reddish brown		1.7	15		0	M		2
186	222	B2	60	SLC	5.5	5YR5/8	Yellowish red		1.5	30		2	M		1
186	222	BC	120+	SCL	5.5	7.5YR5/8	Strong brown		1.0	90		0	S/M		0
187	223	A1	15	SL	6.5	2.5YR3/2	Dusky Red		1.8	10		2	M		3
187	223	B1	30	SCL	7	2.5YR4/3	Reddish brown		1.8	10		3	M		3
187	223	B2	60	LC	8	2.5YR4/4	Reddish brown		1.7	3		0	M		3
187	223	B3	100	LC	9	10YR5/6	Yellowish brown		1.5	3		0	M		2
187	223	2B	140+	LMC	9	2.5YR5/6	Red	Red	1.5	3	Mn	0	M		1
188	224	A11	15	SL	6	5YR4/3	Reddish brown		1.7	5		3	S/M		2
188	224	A12	30	SL	7	5YR3/3	Dark reddish brown		1.3	5		1	M		2
188	224	A3	40	SCL	7	10YR4/3	Brown		1.3	10		0	S/M		2
188	224	B1	60	SLC	8	2.5YR4/4	Reddish brown		1.1	10		0	D		2
188	224	B3	100+	LC	8.5	2.5YR5/2	Weak red	Red	1.0	20	Mn	0	D	2 N	1
189	225	A1	10	SCL	6.5	2.5YR3/2	Dusky Red		1.8	10		1	M		2
189	225	B21	30	MHC	7.5	2.5YR3/6	Dark red		1.6	3		1	M		2
189	225	B22	60	MHC	8.5	2.5YR4/4	Reddish brown		1.2			0	S/M		2
189	225	B3	80	LC	8.5	2.5YR4/4	Reddish brown	Grey Brown	0.9	15		0	D	5 N	1
189	225	BC	100	LC	9	2.5YR4/4	Reddish brown	Grey	0.5	30		0	D	10 N	0
189	225	C	140+	SCL	9	2.5YR4/4	Reddish brown	Grey	0.5	90		0	D	20 N	0
190	205	A11	15	SLC	6.5	2.5YR3/3	Dark reddish brown		1.9	1		2	M		2
190	205	A12	30	SLMC	6.5	2.5YR3/4	Dark reddish brown		1.5	1		2	M		2
190	205	B1	60	MC	7	2.5YR4/4	Reddish brown		1.5			2	M		2
190	205	B2	100	LC	7.5	2.5YR4/4	Reddish brown		1.3			0	M		1
190	205	2B	140+	MC	7.5	2.5YR3/4	Dark reddish brown	Yellow	1.6			0	M		0
191	230	A1	15	SL	5	2.5YR3/2	Dusky Red		1.9	10		2	M		4
191	230	B1	30	SLC	6	2.5YR3/3	Dark reddish brown		1.6	5		3	M		2
191	230	B2	60	LMC	7.5	2.5YR3/4	Dark reddish brown		1.6			0	M		2
191	230	B3	100	LC	8	2.5YR3/4	Dark reddish brown	Brown	1.2			0	M		1
191	230	C	140+	SCL	8	10YR6/2	Light brownish grey	Red	0.8	100		0	M		0
192	227	A1	15	SL	4.5	7.5YR3/2	Dark brown		1.9	10		2	M		3
192	227	B1	30	SCL	5	7.5YR5/4	Brown		1.7	1		3	M		2
192	227	B2	60	MC	5	7.5YR5/8	Strong brown		1.2			0	M		1
192	227	B3	80	LC	6	7.5YR4/4	Brown	Grey	0.9	50	Mn	0	M		0
192	227	BC	140+	SCL	9	7.5YR6/1	Grey	Brown	0.5	95		0	M	10 N	0
193	253	A11	15	MHC	7	7.5YR3/1	Very dark grey		1.4			1	S/M		2
193	253	A12	30	MHC	8.5	7.5YR3/2	Dark brown		1.6			1	M		2
193	253	B2	60	MHC	9	7.5YR3/2	Dark brown		1.7			0	M		2
193	253	B3	100	MC	9	7.5YR3/3	Dark brown		1.6			0	M		1

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193	253	C	140+	MHC	9	7.5YR3/4	Dark brown		1.6		Mn	0	M		0
194	248	A11	15	MHC	6.5	7.5YR3/2	Dark brown		1.8			1	S/M		3
194	248	A12	30	MHC	7.5	7.5YR3/3	Dark brown		1.7			0	M		2
194	248	B2	60	MHC	8.5	7.5YR3/3	Dark brown		1.7			0	M		1
194	248	B2	100	MC	9	7.5YR4/3	Brown		1.7			0	M	10 D	1
194	248	B3	140+	MC	9	7.5YR4/4	Brown		1.6	10	Mn	0	M		0
195	258	A11	15	MHC	7	7.5YR3/1	Very dark grey		1.8	1		0	S/M		3
195	258	A12	30	MHC	7.5	7.5YR3/2	Dark brown		1.7			1	M		3
195	258	B1	60	MHC	9	7.5YR3/2	Dark brown		1.7			0	M		2
195	258	B3	100	MC	9	7.5YR3/3	Dark brown		1.6			0	M		1
195	258	BC	140+	MC	9	7.5YR3/4	Dark brown		1.4			0	M		1
196	213	A11	15	MHC	7	5YR3/1	Very Dark Grey		1.8			2	M		2
196	213	A12	30	MHC	9	5YR3/1	Very Dark Grey		1.8			0	M		2
196	213	B2	60	MHC	9	5YR3/3	Dark reddish brown		1.8			0	M		1
196	213	B3	100	LMC	9	5YR3/3	Dark reddish brown		1.8			0	M		0
196	213	C1	140	LMC	9	5YR3/3	Dark reddish brown		1.8		Mn	2	M		0
196	213	C2	200	LMC	9	5YR3/3	Dark reddish brown		1.8	5	Mn	2	M		0
196	213	C3	300	LMC	9	5YR3/3	Dark reddish brown		1.8	5	Mn	2	M		0
197	257	A11	15	MHC	8	10YR3/1	Very dark grey		1.8	2		0	S/M		3
197	257	A12	30	MHC	9	10YR3/2	Very dark greyish brown		1.6	2		0	M		2
197	257	B1	60	MC	9	10YR4/4	Dark yellowish brown		1.6	2		0	M		1
197	257	B2	100	MC	9	10YR4/4	Dark yellowish brown		1.6			0	M		0
197	257	B3	140+	MHC	9	10YR4/3	Brown		1.6		Mn	0	W		0
198	214	A1	15	MHC	7	5YR3/2	Dark reddish brown		1.4			0	W		2
198	214	A12	30	MC	7.5	1G4/10Y	Dark Greenish Grey	Rusty Roots	1.5			0	W		1
198	214	B2	60	LMC	8	1G4/10Y	Dark Greenish Grey	Rusty Roots	1.7			0	W		0
198	214	B3	100	LMC	8.5	1G3/N	Very dark Grey		1.6			0	W		0
198	214	C	140+	MC	8.5	10YR3/4	Dark Yellowish brown		1.6			0	W		0
199	215	A1	15	MHC	7	10YR3/1	Very dark grey		1.5	1		0	M		2
199	215	B21	30	MHC	9	10YR4/3	Brown	Rusty Roots	1.7	1		0	M		2
199	215	B22	60	MHC	9	10YR4/4	Dark yellowish brown	Rusty Roots	1.6	1		0	M	15 N	1
199	215	B2	100	MHC	9	10YR5/8	Yellowish brown	Black Mottle	1.5	40	Mn	0	W		2
199	215	C	140+	LMC	9	10YR5/8	Yellowish brown		1.5	10	Mn	0	W		1
200	221	A1	15	SCL	6	2.5YR3/2	Dusky Red		1.6	5		1	M		2
200	221	B1	30	SLC	6	2.5YR3/4	Dark reddish brown		1.6	5		2	M		2
200	221	B2	60	LMC	6	2.5YR4/6	Red		1.6			1	M		1
200	221	B3	80	LC	6	10YR5/6	Yellowish brown		1.3	5		1	M		0
200	221	C	140+	SCL	7.5	10YR4/4	Dark yellowish brown		1.2	10		0	M		0
201	226	A1	15	SL	6	2.5YR3/2	Dusky Red		1.8	10		3	M		3
201	226	B21	30	MC	9	2.5YR4/4	Reddish brown		1.6			1	M		2
201	226	B22	60	MHC	9	2.5YR4/4	Reddish brown		1.6			2	M		2
201	226	B3	100	SCL	9	2.5YR4/4	Reddish brown	Grey	1.2	9		2	M		1
201	226	C	140	SCL	9	2.5YR6/2	Pale Red	Red	0.5	95		4	M	5 N	0

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202	206	A1	15	LMC	6	2.5YR3/3	Dark reddish brown		1.8	1		2	M		3
202	206	A3	30	LMC	6	2.5YR4/3	Reddish brown		1.7	1		0	M		2
202	206	B2	60	MC	6	2.5YR4/6	Red		1.7	1		0	M		2
202	206	B3	100	LMC	7.5	2.5YR4/6	Red		1.5	1		0	M		1
202	206	2B	110+	SLC	8.5	2.5Y8/4		Red	1.4	60		0	D	2 D	0
203	191	A1	15	LMC	6	2.5YR3/2	Dusky Red		1.9	60		0	M		3
203	191	B21	30	MC	6.5	2.5YR3/4	Dark reddish brown		1.8	80		2	M		3
203	191	B3	60	MC	7	2.5YR3/6	Dark red		1.8	80		0	M		3
203	191	C	120+	MC	7.5	2.5YR3/6	Dark red		1.7	99		0	S/M		2
204	252	A1	15	MHC	7	10YR3/1	Very dark grey		1.4			0	S/M		3
204	252	A3	30	MHC	8.5	10YR3/2	Very dark greyish brown		1.4			0	M		2
204	252	B1	60	MHC	8.5	10YR3/3	Dark Brown		1.6			0	M	1 D	1
204	252	B3	100	MC	8.5	10YR4/3	Brown		1.6			0	M	1 D	0
204	252	BC	140+	MC	8.5	10YR4/4	Dark yellowish brown		1.6			0	M	1 D	0
205	247	A11	15	MHC	6.5	7.5YR3/2	Dark brown		1.8			0	S/M		3
205	247	A12	30	MHC	7.5	7.5YR3/3	Dark brown		1.7			0	M		2
205	247	A3	60	MHC	8.5	7.5YR3/3	Dark brown		1.7			0	M		1
205	247	B2	100	MC	8.5	7.5YR4/4	Brown		1.7			0	M	1 D	1
205	247	B3	140+	LMC	9.5	7.5YR4/4	Brown		1.6	10	Mn	0	M		0
206	259	A11	15	MHC	7.5	7.5YR3/1	Very dark grey		1.8	2		0	S/M		3
206	259	A12	30	MHC	8	7.5YR3/2	Dark brown		1.7			0	M		3
206	259	B1	60	MHC	9	7.5YR3/2	Dark brown		1.6			0	M		1
206	259	B2	100	MC	9	7.5YR3/3	Dark brown		1.6			0	M		0
206	259	B3	140+	MC	9	7.5YR3/4	Dark brown		1.6			0	M		0
207	212	A1	15	MHC	7	5YR3/1	Very Dark Grey		1.6	1		3	M		2
207	212	B12	40	MHC	8.5	5YR3/1	Very Dark Grey		1.6	1		0	M		1
207	212	B1	60	MC	8.5	5YR3/3	Dark reddish brown		1.6	1		0	M	5 D	1
207	212	B2	100	MC	8.5	5YR3/3	Dark reddish brown		1.6	1		0	M	1 D	0
207	212	BC	140+	LMC	8.5				1.6	1	Mn	0	M	1 D	0
208	218	A1	15	MHC	8.5	10YR3/2	Very dark greyish brown		1.8	2		0	M		2
208	218	B1	30	MHC	9	1G3/N	Very dark Grey	Rusty Roots	1.7	3		0	M		2
208	218	B2	60	HC	9	10YR4/2	Dark greyish brown		1.7	3		0	M		1
208	218	B3	100	MHC	9	10YR4/3	Brown		1.6	2		0	M	5 N	0
208	218	BC	140+	MHC	9	10YR4/4	Dark yellowish brown		1.6	2	Mn	0	W	20 D	0
209	219	A1	15	MC	6.5	5YR3/1	Very Dark Grey		1.3	2		3	M		2
209	219	A3	30	MHC	9	5YR3/2	Dark reddish brown		1.3	2		0	M		2
209	219	B1	50	MHC	9	5YR3/3	Dark reddish brown		1.3	2		0	M		2
209	219	B2	80	HC	9	5YR4/4	Reddish brown		0.9			0	M	15 N	0
209	219	BC	140+	MC	9	5YR4/3	Reddish brown		1.3			0	M	1 N	0
210	217	A1	15	HC	6.5	5YR4/1	Dark grey		1.5	3		0	M		2
210	217	A3	30	HC	8	5YR4/2	Dark reddish grey		1.4	3		0	S/M		2
210	217	B2	60	HC	9	5YR4/3	Reddish brown		1.1	3		0	S/M	15 N	1
210	217	B3	100	MHC	9	5YR4/3	Reddish brown		1.6	3	Mn	0	S/M	20 N	0

Map ID Feb '14	Field Site ID	Horizon	Lower Depth cm	Texture	pH Water	Moist Soil Colour (Munsell)	Colour from Munsell Sheet	Mottles	SOILpak compaction score	Coarse fragments %	Mn?	Dispersion 10 minutes	Moisture	Lime % Type	Root score
210	217	C	140+	MHC	9	5YR4/4	Reddish brown		1.6	3	Mn	0	S/M	5 N	0
211	220	A1	15	SCL	6	2.5YR3/1	Dark reddish grey		1.6	5		3	M		2
211	220	A3	30	SLC	6	2.5YR3/3	Dark reddish brown		1.6	30		2	M		2
211	220	B21	60	LC	6	2.5YR4/6	Red		1.6	1		0	M		2
211	220	B22	100	LC	6.5	10YR5/2	Greyish brown	Red	0.8	3	Mn	0	S/M		1
211	220	BC	140+	CL	9.5	2.5YR3/6	Dark red		0.8	10	Mn	0	S/M	15 N	0
212	194	A1	15	LMC	6	5YR3/3	Dark reddish brown		1.9	80		3	M		3
212	194	B2	30	MC	6	5YR3/3	Dark reddish brown		1.8	80		2	M		3
212	194	B2	60	MC	7	5YR4/6	Yellowish red		1.5	30		0	M		2
212	194	C	100+	LMC	7.5	5YR4/4	Reddish brown		1.5	99		0	S/M		2
213	190	A1	15	LMC	6.5	10R3/2	Dusky red		1.9	80		0	M		3
213	190	B2	30	LMC	6.5	10R3/3	Dusky red		1.8	80		0	M		3
213	190	B3	60	LMC	6.5	10R4/6	Red		1.7	90		0	M		2
213	190	C	120+	SCL	7	10R3/6	Dark red		1.6	99		0	D		1
214	155	A1	7	SL	6	7.5YR3/4	Dark brown		1.5	1		0	M		3
214	155	A3	20	SL	6	7.5YR4/4	Brown		1.5			0	M		4
214	155		40+	Sandstone											1
215	156	A11	15	SL	5.5	5YR3/3	Dark reddish brown		1.5			3	S/M		2
215	156	A12	30	SL	5.5	5YR4/4	Reddish brown		1.2			3	M		2
215	156	B21	60	MC	6.5	5YR5/6	Yellowish red		1.1			1	M		1
215	156	B22	105	LC	8	5YR5/6	Yellowish red	Yellow	1.2	3		0	M		1(85)
215	156		110+	Sandstone + Volcanic Conglomerate											
216	251	A11	15	MHC	8	10YR3/1	Very dark grey		1.6			0	S/M		3
216	251	A12	30	MHC	8	10YR3/1	Very dark grey		1.8			0	M		3
216	251	B2	60	MHC	8	10YR3/1	Very dark grey		1.8			0	M		2
216	251	B3	100	MHC	8	10YR3/3	Dark Brown		1.7			0	M		1
216	251	C	140+	MC	8	10YR4/3	Brown	Brown	1.5			0	M	10 N	0
217	250	A11	15	MHC	6.5	10YR3/2	Very dark greyish brown		1.6			1	S/M		2
217	250	A12	30	MHC	7	10YR3/2	Very dark greyish brown		1.8			0	S/M		3
217	250	B2	60	MHC	8.5	10YR3/2	Very dark greyish brown		1.5			0	S/M		3
217	250	B3	100	MC	8.5	10YR3/3	Dark Brown		1.6			0	M	20 N	2
217	250	BC	140+	MC	8.5	10YR3/3	Dark Brown		1.7			0	M	20 N	1
218	249	A11	15	MHC	6.5	7.5YR3/2	Dark brown		0.9			0	S/M		1
218	249	A12	30	MHC	7	7.5YR3/3	Dark brown		1.7			0	M		2
218	249	B2	60	MHC	8	7.5YR3/4	Dark brown		1.7			0	M		1
218	249	B2	100	MC	8.5	7.5YR3/4	Dark brown		1.6			0	M	1 D	1
218	249	B3	140+	MC	8.5	7.5YR3/4	Dark brown		1.6	5	Mn	0	M		0
219	307	A1	12	LMC	6	7.5YR3/2	Dark brown		1.8			1	M		3
219	307	B1	40	MHC	8.5	7.5YR3/3	Dark brown		1.3			0	M	5 D	2
219	307	B21	60	MHC	8.5	7.5YR4/3	Brown		1.7			0	M	10 D	2
219	307	B22	140+	MHC	8	7.5YR3/3	Dark brown		1.3			0	M/W	5 D	1(110)

Map ID Feb '14	Field Site ID	Horizon	Lower Depth cm	Texture	pH Water	Moist Soil Colour (Munsell)	Colour from Munsell Sheet	Mottles	SOILpak compaction score	Coarse fragments %	Mn?	Dispersion 10 minutes	Moisture	Lime % Type	Root score
220	382	A1	5	MC	5.5	5YR3/3	Dark reddish brown		1.8			0	M		2
220	382	A3	30	MC	8	5YR4/2	Dark reddish grey		1.5			0	M		2
220	382	B21	80	LMC	8.5	7.5YR4/3	Brown		1			0	S/M	1 D	3
220	382	B22	140+	LMC	9.5	7.5YR3/4	Dark brown		1.6			0	M	5 D	1(90)
221	311	A1	12	LC	5.5	5YR3/2	Dark reddish brown		1.8			1	M		3
221	311	B1	55	MC	7.5	5YR3/3	Dark reddish brown		1.1			1	S		3
221	311	B21	95	LMC	9.5	5YR4/4	Reddish brown		1.2			0	S/M	20 D/P	1(85)
221	311	B22	130+	LMC	9.5	5YR4/3	Reddish brown		1.4			0	S	5 D	
222	196	A1	15	MHC	6.5	5YR3/1	Very Dark Grey		1.9	1		0	M		3
222	196	B2	30	MHC	7.5	5YR3/2	Dark Reddish Brown		1.8	1		0	M		2
222	196	B2	60	HC	7.5	5YR3/2	Dark reddish brown		1.6	1		0	S/M		2
222	196	B3	80	HC	8.5	5YR2.1/1	Black		1.5	1		1	D	20 N	1
222	196	BC	140+	MHC	8.5	5YR4/4	Reddish brown		1.1	1		1	D	10 N	1
223	195	A1	15	MHC	6	5YR3/2	Dark reddish brown		1.9	1		3	M		3
223	195	B21	30	MHC	7	5YR3/2	Dark reddish brown		1.8	1		0	M		2
223	195	B22	60	HC	7.5	5YR3/1	Very Dark Grey		1.5	1		0	S/M		2
223	195	B3	80	HC	8.5	5YR3/2	Dark reddish brown		1.2	1		0	D	10 N	2
223	195	C	140+	MHC	8.5	5YR4/6	Yellowish red		0.9	1		0	D	5 N	1
224	193	A11	15	LMC	6.5	5YR3/1	Very Dark Grey		1.9	1		3	M		2
224	193	A12	30	MHC	6.5	5YR3/2	Dark reddish brown		1.7	1		3	M		1
224	193	B2	60	HC	7	5YR3/2	Dark reddish brown		1.3	1		0	S/M	10 N	1
224	193	B3	80	MC	8.5	5YR3/3	Dark reddish brown		1.5	30		3	D	50 N	1
224	193	C	120+	LMC	8.5	5YR4/4	Reddish brown		1.5	90		3	D	20 N	1
225	192	A1	15	MHC	6.5	5YR3/1	Very Dark Grey		1.9	1		1	M		2
225	192	A12	30	MHC	7	5YR3/2	Dark reddish brown		1.8	1		1	M		2
225	192	B2	60	HC	8	5YR3/2	Dark reddish brown		1.6	1		0	S/M		2
225	192	B2	100	HC	8.5	5YR3/3	Dark reddish brown		1.5	1		0	S/M	20 N	1
225	192	C	140+	MHC	8.5	5YR4/6	Yellowish red		1.5	1		0	S/M		0
226	154	A1	10	LC	5	2.5YR3/4	Dark reddish brown		1.8	1		0	S/M		3
226	154	A3	30	LC	6	2.5YR4/4	Reddish brown		1.7			0	M		4
226	154	B1	50	LC	6.5	2.5YR3/6	Dark red		1.3			0	M		3
226	154	BC	60							90					1
226	154	C	90+	Pale Shale/Sandstone											
227	114	A1	15	SL	6.5	2.5YR3/2	Dusky Red		1.8	5		1	M		3
227	114	B1	30	SCL	6.5	2.5YR3/4	Dark reddish brown		1.7	5		1	M		3
227	114	B2	60	SLC	6.5	2.5YR4/6	Red		1.5	5		0	S/M		2
227	114	C	62+	Sandstone											
228	113	A	15	LMC	7	5YR3/1	Very Dark Grey		1.6	5		0	M		3
228	113	A2	30	MHC	8.5	5YR5/1	Grey		1.6	5		0	M		3
228	113	B21	60	HC	9	G22.5/10G	Greenish black		1.3	0		0	S/M		2
228	113	B22	100	HC	10	G22.5/10G	Greenish black		0.5	0		0	S/M		1
228	113	B23	140+	HC	10	G22.5/10G	Greenish black		0.5	0		0	S/M		1

Map ID Feb '14	Field Site ID	Horizon	Lower Depth cm	Texture	pH Water	Moist Soil Colour (Munsell)	Colour from Munsell Sheet	Mottles	SOILpak compaction score	Coarse fragments %	Mn?	Dispersion 10 minutes	Moisture	Lime % Type	Root score
229	209	A1	15	MHC	8.5	7.5YR3/1	Very dark grey		1.9	1		0	M		3
229	209	A3	30	MHC	8.5	7.5YR3/1	Very dark grey		1.7	1		0	M		3
229	209	B2	60	MHC	8.5	7.5YR3/1	Very dark grey		1.6	1		0	M	5 D	2
229	209	B2	120	MC	8.5	7.5YR3/1	Very dark grey		1.6	1		0	M	20 D	1
229	209	C1	140+	MC	8.5	7.5YR5/4	Brown		1.6	0		0	M	80 D	0
229	209	C2	200	MC	8.5	7.5YR5/2	Brown		1.6	0		0	M	80 D	0
229	209	C3	300	MC	8.5	7.5YR5/2	Brown		1.6	0		0	M	80 D	1
230	211	A1	15	MHC	7.5	5YR3/2	Dark reddish brown		2.0			0	M		3
230	211	B21	30	MHC	8	5YR3/2	Dark reddish brown		1.8			0	S/M		3
230	211	B22	60	MHC	8.5	5YR3/1	Very Dark Grey		1.7			0	D	5 N	2
230	211	B23	140	MHC	8.5	5YR3/1	Very Dark Grey		1.7			0	D	5 N	1
230	211	C	150+	LMC	8.5	5YR4/4	Reddish brown		1.0			1	D	80 D	0
231	306	A1	15	LC	7.5	7.5YR3/2	Dark brown		1.8			1	M		1
231	306	B1	25	MHC	8	7.5YR3/2	Dark brown		1.6			2	M		0
231	306	B21	50	MC	9.5	7.5YR4/3	Brown		1.5			2	M		0
231	306	B22	85	MC	9.5	7.5YR3/4	Dark brown		1.7			0	M	10 D	0
231	306	B23	140+	LMC	9.5	7.5YR3/4	Dark brown		1.5			0	W	5 D	0
232	381	A1	10	MC	5.5	5YR3/2	Dark reddish brown		1.7			0	M		1
232	381	A3	30	MC	8	5YR4/2	Dark reddish grey		1.2	1		0	S		3
232	381	B21	95	MC	8.5	5YR4/2	Dark reddish grey		0.7			2	S/M	3 D	3
232	381	B22	140+	LMC	9	5YR4/3	Reddish brown		1.2			2	S/M	7 D	1(130)
233	377	A1	13	SLMC	5	7.5YR3/3	Dark brown		1	2		0	S/M		2
233	377	A3	38	LMC	6.5	7.5YR3/3	Dark brown		1.1			2	M		2
233	377	B21	60	MHC	8	5YR4/4	Reddish brown		1.1			0	S/M		2
233	377	B22	105	MC	8.5	5YR4/4	Reddish brown		1.1			0	S	30 P/D	1
233	377	B23	140+	LMC	9	5YR4/4	Reddish brown		1.4			0	M	15 D	1(190)
234	198	A1	15	MHC	6	5YR3/1	Very Dark Grey		1.9	2		2	M		3
234	198	B21	30	MHC	7	5YR3/1	Very Dark Grey		1.8	2		1	M		3
234	198	B22	60	MHC	7.5	5YR2.5/1	Black		1.7	2		0	M	1 N	2
234	198	B3	80	MHC	8	5YR3/2	Dark reddish brown		1.5	2		0	M	10 N	1
234	198	C	140+	LMC	8.5	5YR4/4	Reddish brown		1.4	2		0	M	1 N	1
235	199	A1	15	MHC	6	5YR3/1	Very Dark Grey		1.9	2		3	M		3
235	199	B21	30	MHC	6	5YR3/1	Very Dark Grey		1.8	2		2	M		3
235	199	B22	60	HC	6	5YR3/1	Very Dark Grey		1.6	2		1	M		3
235	199	B23	80	HC	8	5YR3/3	Dark reddish brown		1.5	2		0	M	5 N	2
235	199	B3	100	MC	8.5	5YR3/3	Dark reddish brown		1.6	2		0	M		1
235	199	CR	140+	SLC	8.5	2.5YR3/4	Dark reddish brown		1.4	95		0	S/M		1
236	200	A1	15	MHC	6	5YR3/1	Very Dark Grey		1.9	5		3	M		3
236	200	B21	30	MHC	7.5	5YR3/1	Very Dark Grey		1.8	5		1	M		3
236	200	B22	60	HC	8	5YR3/1	Very Dark Grey		1.6	2		1	M		2
236	200	B3	100	MC	8.5	5YR3/3	Dark reddish brown		1.5	2		2	M	10 N	2
236	200	BC	140+	MC	8.5	5YR4/4	Reddish brown		1.6	80		2	S/M	20 N	1
237	111	A1	15	LMC	4.5	5YR3/2	Dark reddish brown		1.9	1		0	S/M		3

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237	111	B21	30	MHC	7	5YR2.5/1	Black		1.8	1		0	M		0
237	111	B22	60	MHC	8	5YR2.5/1	Black		1.8	1		0	M		0
237	111	B3	100	LMC	9	5YR3/4	Dark reddish brown		1.7	1		0	M	5 N	0
237	111	BC	140+	LC	10	5YR4/4	Reddish brown		1.5	5		0	M	20 N	0
238	112	A11	15	LMC	7	5YR3/2	Dark reddish brown		1.8	1		1	M		3
238	112	B21	30	LMC	7	5YR3/2	Dark reddish brown		1.8	1		3	M		2
238	112	B22	60	FSCL	7	5YR3/2	Dark reddish brown		1.0	1		2	S/M		1
238	112	B2	100	MHC	10	5YR3/4	Dark reddish brown		1.1	1		1	S/M	5 N	1
238	112	B3	140+	MHC	10	5YR4/6	Yellowish red		0.8	1		3	S/M	10 N	1
239	305	A11	10	MHC	5.5	7.5YR3/2	Dark brown		1.8	5		3	M		4
239	305	A12	30	MHC	6	7.5YR4/2	Brown		1.6			2	M		3
239	305	B2	90	MC	8	7.5YR3/2	Dark brown		1.1			0	M		1
239	305	B3	140+	LMC	9.5	7.5YR4/4	Brown		1.1			0	S	30 D/P	1(110)
240	210	A1	15	MHC	7.5	5YR3/2	Dark reddish brown		2.0			0	M		3
240	210	B1	30	MHC	8.5	5YR3/1	Very Dark Grey		1.8			0	M	2 D	3
240	210	B21	60	HC	8.5	5YR3/1	Very Dark Grey		1.7			0	S/M	5 D	3
240	210	B3	120	HC	8.5	5YR3/1	Very Dark Grey		1.6			0	S/M	10 D	2
240	210	B3	140+	LC	8.5	5YR4/6	Yellowish red		0.5			0	D	80 D	0
241	380	A1	15	MHC	10	5YR3/3	Dark reddish brown		1.9			0	M	5 D	1
241	380	2A3b	55	MHC	9	5YR2.5/2	Dark Reddish Brown		0.9			0	S/M	1 D	2/3
241	380	2B21	110	MC	8.5	5YR2.5/2	Dark Reddish Brown		1			0	S/M	3 D	2
241	380	2B22	140+	MC	8	5YR4/3	Reddish brown		1.3			0	S/M	20 P/D	1(120)
242	379	A1	15	MHC	5.5	5YR3/3	Dark reddish brown		1.9			0	M		2
242	379	B1	40	MC	8.5	5YR3/3	Dark reddish brown		1.0			0	S/M		3
242	379	B21	85	MHC	8	5YR4/2	Dark reddish grey		1.2			2	S/M	5 P/D	3
242	379	B22	140+	LMC	9.5	5YR4/3	Reddish brown		1.1			1	S/M	10 D	1(130)
243	378	A1	10	MC	5.5	7.5YR3/2	Dark brown		1.8			0	M		2
243	378	B1	60	MHC	6.5	7.5YR3/2	Dark brown		0.8			0	S/M		2
243	378	B21	90	MHC	10	7.5YR4/3	Brown		0.9			1	S/M	5 D	2
243	378	B22	140+	MC	9.5	7.5YR4/4	Brown		1.2			2	S/M	20 P/D	1(120)
244	386	A1	5	SLC	5	5YR4/4	Reddish brown		1.1			0	S		2
244	386	A3	15	LMC	5	2.5YR3/4	Dark reddish brown		0.7			0	M		1
244	386	B1	40	LMC	6.5	2.5YR3/3	Dark reddish brown		1.5			0	M		1
244	386	B21	73	LMC	6.5	2.5YR4/6	Red		1.8			1	M		1(60)
244	386	B22	140+	MC	7.5	2.5YR4/6	Red	Grey	1.6	5	Mn	3	M		
245	383	A1	5	SLC	5	7.5YR4/2	Brown		1.3	1		0	S		4
245	383	B1	20	MC	6	7.5YR4/4	Brown		0.3			2	S		3
245	383	B21	50	MC	8	7.5YR4/6	Strong brown		1.1			1	S/M		2
245	383	B22	95	LMC	9.5	7.5YR4/6	Strong brown		0.8			0	S	20 P/D	1(90)
245	383	B23	140+	LMC	9	7.5YR5/6	Strong brown		1.1			0	S/M	10 D	
246	197	A1	15	MHC	6.6	5YR3/1	Very Dark Grey		1.9	3		3	M		3
246	197	B21	30	MHC	7	5YR3/2	Dark reddish brown		1.8	3		2	M		3
246	197	B22	60	HC	7.5	5YR2.5/1	Black		1.6	3		0	M		2

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246	197	B3	80	HC	8	5YR3/3	Dark reddish brown		1.5	3		0	S/M	20 N	1
246	197	C	140+	MHC	8.5	5YR4/4	Reddish brown		1.0	3		0	S/M	10 N	1
247	201	A1	15	MC	6.5	5YR3/1	Very Dark Grey		1.9	30		2	M		3
247	201	B2	40	MHC	7	5YR3/3	Dark reddish brown		1.8	30		0	M		2
247	201	C	120+	SLC	8.5	5YR3/4	Dark reddish brown		1.2	99		0	S/M	50 D	1
248	118	A1	20	CL	6	2.5YR3/2	Dusky Red		1.8	10		1	S/M		4
248	118	B2	50	LC	7	2.5YR3/4	Dark reddish brown		1.6	10		0	M		3
248	118		90+	Basalt Rock											
249	109	A1	15	LC	6	5YR3/4	Dark reddish brown		1.8	10		1	S/M		3
249	109	B2	30	MHC	7	5YR4/4	Reddish brown		1.7	10		2	M		
249	109	B3	60	LMC	8	2.5YR3/4	Dark reddish brown		1.7	50		3	M		
249	109	C1	100	SCL	8.5	2.5YR3/4	Dark reddish brown		1.0	90		3	S/M	5 D	
249	109	C2	140+	LS	8	10YR3/2	Very dark greyish brown		1.5	95		2	S/M	20 D	
250	108	A1	15	MC	5.5	7.5YR3/2	Dark brown		1.9	2		0	M		3
250	108	B11	30	MHC	7.5	7.5YR3/2	Dark brown		1.8	2		1	M		2
250	108	B12	60	MHC	8.5	7.5YR3/3	Dark brown		1.5	2		3	M		1
250	108	B3	100	LMC	10	5YR4/4	Reddish brown		1.2	2		3	S/M	5 D	1
250	108	C	140+	LC	10	5YR4/4	Reddish brown		0.9	2		0	S/M	10 D	1
251	153	A11	10	MHC	7	7.5YR3/2	Dark brown		1.8			0	M		3
251	153	A12	25	MHC	7.5	7.5YR3/2	Dark brown		1.6			0	M		2
251	153	B21	60	MC	7.5	7.5YR3/2	Dark brown		1.2	1		0	S/M		2
251	153	B22	95	MC	8.5	7.5YR4/3	Brown		1.1			1	S	2 D	2
251	153		105+	Volcanic Conglomerate											
252	207	A11	15	MC	8.5	5YR3/1	Very Dark Grey		2.0			2	M		2
252	207	A12	30	MC	8.5	5YR3/1	Very Dark Grey		1.9			0	M		1
252	207	B21	60	MC	8.5	5YR3/1	Very Dark Grey		1.8			0	M		0
252	207	B22	100	MC	8.5	5YR3/1	Very Dark Grey		1.8			0	M		0
252	207	B3	140+	MC	8.5	5YR3/1	Very Dark Grey	Brown	1.8			0	M		0
252	207	C1	200	MC	8.5	5YR4/3	Brown	Brown	1.8			0	M		0
252	207	C2	300	MC	8.5	7.5YR4/3	Brown	Brown	1.8			0	M		0
253	208	A1	15	MC	7	7.5YR3/1	Very dark grey		1.9			1	M		2
253	208	B1	30	MC	8	7.5YR3/2	Dark brown		1.8			0	M	5 N	2
253	208	B21	60	MC	8.5	7.5YR4/3	Brown		1.7			0	M	10 N	1
253	208	B22	100	MHC	8.5	7.5YR4/3	Brown		1.6			0	M	5 N	1
253	208	B3	140+	MHC	8.5	7.5YR4/3	Brown		1.5			0	M	20 D	0
254	301	A11	17	SLC	6.5	5YR3/2	Dark reddish brown		1.6	10		0	M		3
254	301	A12	35	LC	6.5	5YR3/2	Dark reddish brown		1.2			2	S/M		3
254	301	B2	60	LMC	7	5YR4/3	Reddish brown		1.3			0	S		2
254	301	2B21	90	LC	8	5YR4/4	Reddish brown		1.1			0	S/M		1
254	301	2B22	140+	LC	9.5	7.5YR4/4	Brown		1.3			0	S/M	10 P	1(110)
255	302	A11	10	LC	6	5YR3/3	Dark reddish brown		1.7	15		0	M		3
255	302	A12	25	MC	6	5YR4/3	Reddish brown		1.7			3	M		4
255	302	B21	45	HC	8	5YR4/4	Reddish brown		1.4			0	M	1 D	2

Map ID Feb '14	Field Site ID	Horizon	Lower Depth cm	Texture	pH Water	Moist Soil Colour (Munsell)	Colour from Munsell Sheet	Mottles	SOILpak compaction score	Coarse fragments %	Mn?	Dispersion 10 minutes	Moisture	Lime % Type	Root score	
255	302	B22	140+	LMC	8.5	5YR4/6	Yellowish red		0.8			0	S/M	5	D	1
256	303	A (graded)	20	SLMC	5.5	7.5YR3/3	Dark brown		1.6	40		3	M			3
256	303	2B21	70	LMC	7	7.5YR4/4	Brown		0.3			2	S			2
256	303	2B22	100	LC	9	7.5YR4/4	Brown		1.7			0	M	10	D/P	1
256	303	2B23	140+	LMC	9	7.5YR4/6	Strong brown		1.7			0	S/M	5	D	1(120)
257	304	A (graded)	15	SLC	5	7.5YR3/3	Dark brown		1.7	30		0	M			3
257	304	B21	60	MC	8	7.5YR3/3	Dark brown		1.1			0	S			3
257	304	B22	90	LC	8.5	5YR4/3	Reddish brown		1.3			0	S/M	5	D	2
257	304	B23	140+	LC	8.5	5YR4/3	Reddish brown		1.2			0	M	10	D/P	1(130)
258	349	A1	10	LMC	6.5	5YR3/2	Dark reddish brown		0.8			0	S			3
258	349	B21	65	MC	7	5YR4/2	Dark reddish grey		0.7			0	S/M			2
258	349	B22	110	MC	10	5YR4/3	Reddish brown		1.5			0	S	10	P/D	1(80)
258	349	B23	140+	LMC	10	5YR4/3	Reddish brown		1.1			0	S	25	P/N	0
259	348	A1	10	MC	6	5YR3/2	Dark reddish brown		1.2			0	S			2
259	348	B1	35	MC	7.5	5YR3/2	Dark reddish brown		0.5			0	S			2
259	348	B21	65	MC	8	5YR4/2	Dark reddish grey		0.9			0	S/M	3	N/D	1
259	348	B22	140+	MC	9.5	5YR4/4	Reddish brown		1.1			1	S	7	N/D	1(110)
260	346	A1	10	LMC	6	5YR3/1	Very Dark Grey		1.8			0	S/M			2
260	346	B21	80	MC	7.5	5YR2.5/2	Dark Reddish Brown		0.8			0	S	1	D	3
260	346	B22	140+	MC	8.5	5YR3/3	Dark reddish brown		1.0			1	S	5	D	1
261	347	A1	10	LMC	7	5YR4/2	Dark reddish grey		1.9			0	S			2
261	347	B21	55	MC	7	5YR4/2	Dark reddish grey		1.7			0	S/M	1	D	2
261	347	B22	100	MC	9	5YR4/2	Dark reddish grey		0.8			1	S	5	D/N	1
261	347	B23	140+	MC	9	5YR4/3	Reddish brown		1.0			1	S	3	N	1(110)
262	385	A1	15	SLC	5.5	5YR3/2	Dark reddish brown		0.9	1		0	S			2
262	385	B21	50	MC	9	5YR4/6	Yellowish red		0.7			3	S	1	D	2
262	385	B22	85	LC	9	5YR4/6	Yellowish red		1.2			0	S	30	P/D	1(55)
262	385	B23	140+	LC	9.5	5YR4/6	Yellowish red		1.2			0	S/M	20	P/D	
263	384	A11	14	SCL	4.5	5YR4/3	Reddish brown		1.5	5		0	S			1
263	384	A12	35	SLC	5	5YR4/6	Yellowish red		1.2	1		0	S/M			1
263	384	A2	45	SLC	6	5YR4/4	Reddish brown		1.5	10		0	S			1
263	384	B21	75	LMC	7	5YR5/6	Yellowish red		0.7	1		1	S			1(65)
263	384	B22	140+	LMC	7	7.5YR5/6	Strong brown	Yellow Grey	0.6	5	Mn	2	S	1	N	
264	246	A11	12	SLC	5.5	7.5YR3/2	Dark brown		1.2	2		0	S/M			1
264	246	A12	30	SLC	7.5	7.5YR3/2	Dark brown		0.7			0	M			2
264	246	B21	60	MC	8	7.5YR4/6	Strong brown		0.6			1	S/M			1
264	246	B22	110	LC	8.5	7.5YR5/6	Strong brown		0.5			1	S			1(95)
264	246	B23	140+	LC	10	7.5YR5/6	Strong brown		0.5			0	S	5	p	
265	245	A1	13	MHC	6.5	7.5YR3/2	Dark brown		0.4			3	M			2
265	245	B1	38	MHC	7.5	7.5YR3/2	Dark brown		1.1			1	S			3
265	245	B21	65	MC	8	7.5YR2.5/1	Black		0.8			1	S	2	D	2
265	245	B22	140+	LMC	8.5	7.5YR4/4	Brown		1.1			0	S	10	P/N	1(80)
266	235	A1	15	MHC	6.5	7.5YR4/2	Brown		1.8	10		0	M			3

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266	235	A3	30	MHC	7.5	7.5YR4/2	Brown		1.6	10		0	M		2
266	235	B21	60	HC	8.5	7.5YR3/1	Very dark grey		1.4	10		0	S/M	5 N	1
266	235	B22	100	HC	8.5	7.5YR3/3	Dark brown		1.0	10		0	S/M	10 N	1
266	235	C	140+	MHC	8.5	5YR4/4	Reddish brown		0.9	10		0	S/M	10 N	0
267	204	A11	15	LMC	6.5	5YR3/2	Dark reddish brown		1.8	15		3	M		3
267	204	A12	40	LMC	7.5	5YR3/3	Dark reddish brown		1.8	10		0	M		3
267	204	B2	100	HC	8	5YR2.5/1	Black		1.5	10		0	D	10 N	2
267	204	C	140+	MHC	8.5	5YR3/4	Dark reddish brown		1.0	5		0	D	15 N	1
268	202	A1	15	MC	6.5	5YR3/2	Dark reddish brown		1.9	3		2	M		3
268	202	B21	30	MHC	7	5YR3/1	Very Dark Grey		1.8	3		2	M		2
268	202	B22	60	MHC	8	5YR3/1	Very Dark Grey		1.6	3		0	S/M		2
268	202	C	140+	LMC	8.5	5YR3/3	Dark reddish brown		1.4	3		0	S/M	10 N	1
269	117	A1	20	LC	5	10R3/2	Dusky red		1.7	20		1	M		4
269	117	B2	55	MC	6	10R4/6	Red		1.5	5		0	M		3
269	117	B22	120	LC	6.5	10R4/6	Red	Yellow Grey	1.5	2		0	S/M		2
269	117		130+	Basalt Rock											
270	119	A1	12	MC	5.5	2.5YR3/2	Dusky Red		1.8	1		0	M		3
270	119	A3	45	MC	6.5	2.5YR3/2	Dusky Red		1.2	3		0	M		2
270	119	B21	100	LC	8	2.5YR4/4	Reddish brown		0.8	20		0	S/M		1
270	119	B22	140+	LC	9.5	2.5YR4/4	Reddish brown		1.0	5		0	S/M	5 P	1(100)
271	110	A1	15	LMC	7.5	5YR2.5/1	Black		1.9	5		0	S/M		3
271	110	B21	30	MHC	7.5	5YR2.5/2	Dark Reddish Brown		1.8	1		0	M		1
271	110	B22	60	MHC	8.5	5YR2.5/2	Dark Reddish Brown		1.7	1		0	M	1 N	0
271	110	B3	100	MHC	9	5YR2.5/2	Dark Reddish Brown		1.6	1		1	M	1 D	0
271	110	BC	140+	MC	10	5YR4/3	Reddish brown		1.6	1		3	M	10 D	0
272	61	A11	5	LMC	6.5	5YR3/1	Very Dark Grey		1.8	2		0	M	0	3
272	61	A12	30	LMC	8.5	5YR3/2	Dark reddish brown		1.7	2		0	M	3 N	2
272	61	B21	60	MHC	8.5	5YR3/2	Dark reddish brown		1.7	2		0	M	2 N	1
272	61	B22	80	MHC	8.5	5YR3/2	Dark reddish brown		1.6	2		0	M	2 N	1
272	61	B23	100	MHC	8.5	5YR3/2	Dark reddish brown		1.5	2		0	M	2 N	1
272	61	B3	140+	MHC	8.5	5YR3/3	Dark reddish brown							2 N	1
273	59	A11	5	LMC	8	5YR3/1	Very Dark Grey		1.7	3		0	M		3
273	59	A12	30	MC	8	5YR3/1	Very Dark Grey		1.7	1		0	M		2
273	59	B2	80	MC	8	5YR3/1	Very Dark Grey		1.5	1		0	M	1 N	1
273	59	B3	100	MC	8.5	5YR3/1	Very Dark Grey	Brown	1.3			1	M	3 N	1
273	59	BC	140+	LMC	9	5YR4/4	Reddish brown	Brown	1.5	1		1	M	3 D	0
274	300	A11	15	SL	6	7.5YR3/3	Dark brown		1.7	1		0	M		3
274	300	A12	28	LS	6.5	7.5YR4/3	Brown		1.2			0	S		2
274	300	B21	75	LC	9	7.5YR4/4	Brown		0.9			0	S		1(100)
274	300	B22	85	LMC	9	7.5YR5/4	Brown		1.3			1	M	1 D	
274	300	B23	140+	LC	9	7.5YR5/4	Brown	Yellow	1.4	1		1	M	5 D/P	
275	360	A1	15	LMC	6.5	5YR3/2	Dark reddish brown		1.3			2	M		2
275	360	B21	35	MHC	7	5YR3/2	Dark reddish brown		0.8			1	S/M		1

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275	360	B22	60	MC	8	5YR3/3	Dark reddish brown		0.7			0	S	1 D	0
275	360	B23	140+	LMC	9	5YR4/3	Reddish brown		1.2			0	S/M	10 P/D	0
276	350	A1	10	MHC	6.5	5YR4/2	Dark reddish grey		0.5			0	S		2
276	350	B21	70	MC	6.5	5YR4/2	Dark reddish grey		0.7			0	S		1
276	350	B22	100	MHC	9	5YR4/2	Dark reddish grey		0.9			0	S	1 D	1
276	350	B23	140+	LMC	9	5YR4/3	Reddish brown		1.4			0	S/M	10 D/P	1(105)
277	351	A1	10	MC	6.5	7.5YR3/2	Dark brown		0.5			0	S		3
277	351	B21	40	MHC	6.5	7.5YR3/2	Dark brown		0.3			0	S		2
277	351	B22	80	MC	8.5	7.5YR3/2	Dark brown		0.6			0	S	5 D/P	1
277	351	B23	140+	LMC	10	7.5YR3/4	Dark brown		1.3			0	S/M	10 D/P	1(100)
278	352	A1	10	MHC	6.5	7.5YR3/2	Dark brown		0.9			0	S		3
278	352	B1	40	MHC	8	5YR3/2	Dark reddish brown		0.6			0	S/M		3
278	352	B2	105	MC	9	5YR4/3	Reddish brown		0.7			0	S	10 P/D	1
278	352	BC	140+	MC	10	5YR4/3	Reddish brown		1.2			0	S/M	20 P/D	0
279	345	A1	8	MHC	5.5	5YR3/2	Dark reddish brown		1.8			0	S		2
279	345	B1	30	MHC	6.5	5YR2.5/2	Dark Reddish Brown		1.5			0	S/M		2
279	345	B21	60	MC	7	5YR2.5/2	Dark Reddish Brown		1.2			0	S/M		2
279	345	B22	90	LMC	8	5YR2.5/2	Dark Reddish Brown		0.9			0	S	1 D	1
279	345	B23	140+	LMC	8.5	5YR4/3	Reddish brown		0.6			0	S	2 D	1(130)
280	340	A1	5	LMC	7	7.5YR3/2	Dark brown		1.9			0	D		2
280	340	A3	20	MC	7	7.5YR3/2	Dark brown		1.3			0	S/M		2
280	340	B21	90	MHC	7.5	7.5YR3/2	Dark brown		1.1	1		0	S/M		2/3
280	340	B22	140	MC	10	5YR3/3	Dark reddish brown		1.3	1		2	S/M	1 D	1
281	338	A1	20	SL	6	5YR4/4	Reddish brown		1.6	2		0	S		3
281	338	B1	40	LC	6	5YR4/6	Yellowish red		1.5	2		0	S		3
281	338	B21	70	LC	6.5	5YR5/6	Yellowish red		1.2			0	S/M		2
281	338	B22	140+	LC	7	7.5YR5/6	Strong brown	Slight Grey	1.2	1	Mn	1	S		1
282	359	A1	15	SLC	5	5YR3/3	Dark reddish brown		0.6-1.2	2		0	S/M		3
282	359	A3	32	SLC	5.5	2.5YR4/4	Reddish brown		0.9	10		0	S		3
282	359	B21	70	MC	6.5	7.5YR5/6	Strong brown		1.1			0	S		2
282	359	B22	103	LMC	6.5	5YR5/6	Yellowish red	Grey & Red	0.9	5	Mn	0	S/M	1 D	2
282	359	B23	140+	LMC	8.5	5YR5/6	Yellowish red	Grey	1.2	2	Mn	0	S/M	30 P/D	1
283	242	A1	17	CL	6	7.5YR2.5/2	Very dark brown		1.3	1		0	S/M		3
283	242	B21	42	MHC	6	5YR4/4	Reddish brown		1.7			2	M		2
283	242	B22	60	LMC	8	5YR4/4	Reddish brown		0.9			1	S/M		2
283	242	B23	140+	LC	9.5	5YR4/4	Reddish brown		0.5			0	S/M	30 N	1
284	243	A1	15	MHC	6	10YR3/2	Very dark greyish brown		0.3			0	M		2
284	243	B1	45	MHC	7	10YR4/3	Brown		0.5			0	M		2
284	243	B21	90	MC	8.5	7.5YR3/3	Dark brown		0.3			1	S	10 P/N	1
284	243	B22	140+	LMC	8.5	7.5YR3/4	Dark brown		0.7			0	S	10 P/N	1/10
285	244	A1	10	MC	7	7.5YR3/3	Dark brown		0.3			0	M		2
285	244	A3	20	MHC	7.5	7.5YR3/3	Dark brown		0.8	2		0	M		3
285	244	B1	40	MHC	7.5	7.5YR2.5/3	Very dark brown		1.0	5		0	S/M		2

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285	244	2B	60	LMC	8.5	7.5YR3/3	Dark brown		0.6	15		0	S	5 P	2
285	244	3B	90	MHC	7	7.5YR2.5/1	Black		0.8			0	S	5 D	2
285	244	4B	140+	MC	8.5	7.5YR3/3	Dark brown		0.9			0	S	5 P	1/130
286	234	A1	15	LMC	6	5YR3/2	Dark reddish brown		1.7	15		2	S/M		2
286	234	B1	30	MHC	8.5	5YR3/3	Dark reddish brown		1.7	15		0	M		2
286	234	B21	60	HC	8.5	5YR3/4	Dark reddish brown		1.5	5		0	D	5 N	2
286	234	B22	100	HC	8.5	5YR3/4	Dark reddish brown		1.1	5		0	D	15 N	1
286	234	B3	140+	MHC	8.5	2.5YR3/4	Dark reddish brown		0.8	10		0	D	30 N	0
287	203	A1	15	LC	6.5	5YR3/2	Dark reddish brown		1.8	2		2	M		3
287	203	B21	30	LMC	7	5YR3/1	Very Dark Grey		1.8	2		0	M		3
287	203	B22	60	MHC	8	5YR3/1	Very Dark Grey		1.6	2		0	S/M		2
287	203	B3	100	LMC	8.5	5YR3/3	Dark reddish brown		1.3	2		0	S/M	1 N	2
287	203	C	140+	SCL	8.5	2.5YR3/6	Dark red		0.9	90		0	D	60 D	1
288	116	A1	10	LC	6	5YR3/3	Dark reddish brown		1.7	20		0	S/M		4
288	116	B2	40	LC	7	5YR4/4	Reddish brown		1.6	40		0	S/M		3
288	116	B3	60	CL	7.5	10YR3/4	Dark Yellowish brown	Grey	1.5	70		1	S/M		1(110)
288	116		120+	Basalt Rock											
289	115	A1	15	CL	5.5	2.5YR3/4	Dark reddish brown		1.9	70		0	S/M		4
289	115	B2	65	LMC	6.5	2.5YR3/4	Dark reddish brown		1.7	20		0	S/M		3
289	115	B2	120	LC	7.5	2.5YR5/6	Red		1.6	40		0	S/M		2
289	115		125+	Basalt Rock											
290	107	A1	15	MHC	7	7.5YR3/1	Very dark grey		1.9	2		0	S/M		3
290	107	B11	30	HC	8	7.5YR3/1	Very dark grey		1.8	2		0	M		0
290	107	B12	60	HC	8.5	7.5YR3/1	Very dark grey		1.8	2		0	M		0
290	107	B13	100	HC	9.5	7.5YR3/1	Very dark grey		1.8	2		0	M	1 D	0
290	107	BC	140+	HC	9.5	7.5YR3/4	Dark brown		1.7	2		3	M	1 D	0
291	106	A1	15	MHC	6.5	7.5YR3/1	Very dark grey		1.9	2		0	M		3
291	106	A3	30	MHC	9.5	7.5YR3/1	Very dark grey		1.8	2		0	M	1 D	0
291	106	B11	60	MHC	9.5	7.5YR3/2	Dark brown		1.8	2		0	M	1 D	0
291	106	B12	100	MHC	9.5	7.5YR3/3	Dark brown		1.6	2		0	M	1 D	0
291	106	C	140+	MHC	9.5	7.5YR3/4	Dark brown		1.6	2		0	M	2 D	0
292	60	A11	5	MHC	6.5	7.5YR3/2	Dark brown		1.8	1		0	M		2
292	60	A12	25	MHC	8	7.5YR3/2	Dark brown		1.7	1		0	M		2
292	60	B21	70	MHC	8.5	7.5YR3/2	Dark brown		1.2	2		0	M	1 N	2
292	60	B22	100	MHC	8.5	7.5YR3/3	Dark brown		1.4			0	M	1 N	1
292	60	BC	140+	MHC	9	7.5YR3/3	Dark brown		1.2			1	M	3 D	1(110)
293	374	A1	18	CS	4	7.5YR4/3	Brown		1.5	2		0	S		2
293	374	A2	30	LS	5	7.5YR4/2	Brown		1.5			0	S		3
293	374	B21	55	SLC	4.5	7.5YR5/3	Brown	Yellow	0.7			1	S/M		2
293	374	B22	80	MC	8	7.5YR5/6	Strong brown	Grey	1.0			0	S/M	1 N	2
293	374	B23	140+	SLC	9	10YR5/4	Yellowish brown	Grey	0.8	5	Mn	0	S	15 D/P	1(120)
294	373	A1	18	LS	5	7.5YR4/2	Brown		1.5			0	S		3
294	373	A2	60	LS	6	7.5YR5/3	Brown		1.5	5		0	S/M		2

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294	373	B2	70	LMC	7	10YR5/4	Yellowish brown	Yellow	0.8			0	M		1
294	373	BC	140+	SCL	5.5	10YR5/8	Yellowish brown	Grey	0.4	20	Mn	0	S		0
295	361	A1	10	SLC	5.5	5YR3/2	Dark reddish brown		0.3			0	S		2
295	361	B21	45	LC	5.5	5YR4/4	Reddish brown		0.5			0	S		1
295	361	B22	90	LMC	6.5	5YR4/6	Yellowish red		0.6	0.5	Mn	0	S		2(80)
295	361	B23	140+	LC	7	5YR4/4	Reddish brown	Grey	0.7	5	Mn	0	S/M		
296	362	A1	10	HC	6	5YR2.5/2	Dark Reddish Brown		1.9			0	M		2
296	362	B1	40	HC	7	5YR2.5/2	Dark Reddish Brown		1.1			0	S/M		2
296	362	B21	70	HC	8	5YR2.5/2	Dark Reddish Brown		1.3			0	S	1 D	2
296	362	B22	140+	LMC	8	5YR4/3	Reddish brown		1.3			0	S/M	2 D/N	2(105)
297	363	A1	5	MC	5.5	5YR2.5/2	Dark Reddish Brown		1.9			0	S		1
297	363	A3	17	MHC	6	5YR3/2	Dark reddish brown		1.5			0	M		1
297	363	B21	60	MHC	6.5	5YR3/2	Dark reddish brown		1.2			0	S/M		3
297	363	B22	90	MC	8	5YR3/2	Dark reddish brown		0.8			1	S	1 D	2
297	363	B23	140+	LMC	9	5YR4/3	Reddish brown		1.1			2	S/M	3 D/N	1(110)
298	364	A1	5	MC	5.5	5YR2.5/2	Dark Reddish Brown		1.7			0	D		2
298	364	B1	15	MHC	6	5YR2.5/2	Dark Reddish Brown		1.4			0	M		2
298	364	B21	40	MHC	7.5	5YR2.5/2	Dark Reddish Brown		0.3			0	S		2
298	364	B22	85	MC	8.5	5YR3/2	Dark reddish brown		0.5			0	S/M	2 D	2
298	364	B23	140+	LMC	8.5	5YR3/3	Dark reddish brown		1.1			1	S/M	5 D/N	1(130)
299	344	A1	10	MHC	6	5YR3/2	Dark reddish brown		0.7			0	S/M		2
299	344	B21	75	MHC	8	5YR4/2	Dark reddish grey		0.9			0	S/M	1 D	2
299	344	B22	140+	MC	8.5	5YR3/3	Dark reddish brown		0.7			1	S/M	2 D	2
300	339	A1	10	MC	6.5	5YR4/2	Dark reddish grey		1.3				S		3
300	339	B1	50	MHC	7.5	5YR3/3	Dark reddish brown		1.2				S/M		3
300	339	B21	70	MC	8.5	5YR4/3	Reddish brown		1.2				S	10 D/P	2
300	339	B22	140+	LMC	9.5	5YR4/4	Reddish brown		1.2				S	0-20 D/P	1(90)
301	336	A1	10	SL	5.5	5YR3/2	Dark reddish brown		1.0			0	S		3
301	336	A3	38	SCL	6	7.5YR4/4	Brown		1.2			1	M		3
301	336	B21	55	LC	6	7.5YR4/6	Strong brown		0.9	1		0	S		3
301	336	B22	140+	LMC	5.5	7.5YR5/6	Strong brown		0.8	2	Mn	1	S		1
302	337	A11	10	SL	5.5	5YR3/2	Dark reddish brown		1.4	1		0	S		3
302	337	A12	20	SL	5.5	5YR3/3	Dark reddish brown		0.3	1		0	S		2
302	337	B21	50	LC	5.5	5YR4/4	Reddish brown		1.2			0	M		3
302	337	B22	105	LC	5.5	7.5YR5/6	Strong brown		1.2			0	S		2
302	337	B23	140+	MC	6	7.5YR5/8	Strong brown	Grey Red	0.6	5	Mn	1	S		1
303	241	A1	15	CL	5.5	5YR4/4	Reddish brown		0.8			2	S/M		2
303	241	B1	35	LMC	5	5YR4/6	Yellowish red		0.9	5		0	M		2
303	241	B21	55	LMC	5	7.5YR4/6	Strong brown		0.8	2		0	M		2
303	241	B22	70	LMC	5	7.5YR5/6	Strong brown		0.8			0	S/M		1
303	241	B23	140+	LC	7	7.5YR5/6	Strong brown		0.7			2	S/M		1
304	240	A1	15	MC	5	10YR4/1	Dark grey		1.8	10		0	S/M		3
304	240	A3	30	MHC	3	10YR4/3	Brown		1.5	5		0	M		2

Map ID Feb '14	Field Site ID	Horizon	Lower Depth cm	Texture	pH Water	Moist Soil Colour (Munsell)	Colour from Munsell Sheet	Mottles	SOILpak compaction score	Coarse fragments %	Mn?	Dispersion 10 minutes	Moisture	Lime % Type	Root score
304	240	B1	60	MHC	5	10YR3/3	Dark Brown		1.3	10		0	M		1
304	240	B2	80	MHC	5	5YR4/3	Reddish brown		1.3	10		0	S/M	5 N	1
304	240	B3	140+	MHC	5	2.5YR3/3	Dark reddish brown		0.8	10		0	S/M	15 N	0
305	239	A1	15	MC	5	7.5YR3/1	Very dark grey		1.7	10		2	S/M		3
305	239	A3	30	MC	7	7.5YR4/3	Brown		1.7	10		2	M		2
305	239	B1	50	MHC	8	7.5YR4/2	Brown		1.5	10		1	M		1
305	239	B2	70	MHC	8.5	7.5YR4/4	Brown	Grey	0.9	5	Mn	0	S/M		1
305	239	B3	140+	MC	9	5YR4/6	Yellowish red		0.8	5	Mn	0	S/M	5 N	0
306	233	A1	15	SCL	6	2.5YR3/2	Dusky Red		1.8	10		0	M		0
306	233	B1	30	LMC	7	2.5YR3/4	Dark reddish brown		1.6	1		1	M		1
306	233	B21	60	LMC	8	2.5YR3/6	Dark red		1.6	1		1	M		1
306	233	B22	100	HC	8	2.5YR3/6	Dark red		1.4	1		0	S/M		0
306	233	B3	140+	MHC	8	2.5YR3/6	Dark red		0.8	1		0	S/M		0
307	231	A1	15	SCL	5.5	10YR3/2	Very dark greyish brown		1.7	5		1	M		2
307	231	A3	30	LC	6.5	10YR3/2	Very dark greyish brown		1.7	5		3	M		2
307	231	B21	60	MHC	7.5	10YR4/3	Brown		1.4	5		0	M		1
307	231	B22	100	MLC	8.5	10YR5/6	Yellowish brown	Red	0.5	10	Mn	0	S/M		1
307	231	C	140+	LC	8.5	10R3/6	Dark red	Brown	0.9	5		0	S/M		0
308	389	A1	17	MC	8.5	7.5YR4/4	Brown		1.0			0	S		4
308	389	B1	30	MC	9	7.5YR3/4	Dark brown		1.0			1	S	1 P	3
308	389	B21	100	LMC	8	7.5YR4/3	Brown		1.1			0	S	15 P/D	2(90)
308	389	B22	140+	LMC	9	7.5YR4/2	Brown	Grey	1.2			0	S/M	20 P/D	
309	392	A1	15	LC	5.5	2.5YR3/2	Dusky Red		1.9	20		0	S		4
309	392	B2	40	MC	6	2.5YR3/3	Dark reddish brown		1.6	80		0	S/M		3
309	392	BC	90	SLC	7	2.5YR4/4	Reddish brown		1.7	80		0	S/M		3
309	392	C	95+	Basalt											
310	395	A1	15	MHC	7	5YR2.5/2	Dark Reddish Brown		0.9			0	M		2
310	395	B1	40	MHC	7	5YR2.5/2	Dark Reddish Brown		1.1			0	S/M		2
310	395	B21	105	MHC	7.5	5YR2.5/3	Dark Reddish Brown		1.0			0	S/M	20 P	1(70)
310	395	B22	140+	MHC	9	5YR4/4	Reddish brown		1.2			0	S/M	40 P/D	
311	397	A1	15	HC	8	5YR2.5/2	Dark Reddish Brown		1.4			0	M		2
311	397	B21	50	HC	8	5YR2.5/2	Dark Reddish Brown		1.2			0	S/M		3
311	397	B22	120	HC	9	5YR2.5/2	Dark Reddish Brown		1.0			0	S/M	1 D	2
311	397	B23	140+	MHC	9.5	5YR4/3	Reddish brown		1.1			0	S/M	10 D	1
312	398	A1	12	MHC	5.5	5YR2.5/2	Dark Reddish Brown		1.9			0	M		2
312	398	B21	60	HC	8	5YR2.5/2	Dark Reddish Brown		1.2			0	M		2
312	398	B22	100	HC	8	5YR2.5/2	Dark Reddish Brown		1.2			0	S/M	1 N	1
312	398	B23	140+	MHC	9	5YR3/3	Dark reddish brown		1.3			0	M	5 D	1(120)
313	299	A1	10	SCL	5.5	5YR3/3	Dark reddish brown		1.6			0	M		3
313	299	B1	25	SLC	6	5YR4/3	Reddish brown		1.7			2	M		2
313	299	B21	50	LC	6	7.5YR5/6	Strong brown		1.1			0	S/M		1
313	299	B22	140+	FSCL	7	10YR5/8	Yellowish brown	Grey	0.8			0	S/M		1(90)
314	376	A11	15	CS	6	7.5YR4/3	Brown		1.5			0	S		2

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314	376	A12	45	LS	8	7.5YR4/4	Brown		1.5			0	S/M		3
314	376	A13	85	LS	8.5	7.5YR5/6	Strong brown		1.5			1	M		2
314	376	B2	140+	LC	8.5	7.5YR5/8	Strong brown		0.9			0	S		1(105)
315	372	A1	12	SLC	5.5	7.5YR3/4	Dark brown		1.5	5		0	S		3
315	372	A3	30	SLC	9	5YR4/6	Yellowish red		1.4	25		0	S	3 D	2
315	372	B1	55	SLC	9	5YR4/6	Yellowish red		1.1	40		0	S	10 D/P	2
315	372	2B21	85	LC	8	7.5YR5/6	Strong brown		0.6			0	S	5 D/P	2
315	372	2B21	140+	LMC	8	10YR5/6	Yellowish brown	Grey	0.5	5	Mn	0	S	15 P/D	1
316	367	A1	8	MC	5	5YR2.5/2	Dark Reddish Brown		1.6			0	M		1
316	367	B1	25	MHC	6.5	5YR2.5/1	Black		0.7			0	S/M		1
316	367	B21	75	MC	8.5	5YR2.5/1	Black		0.8			0	S	1 D	2
316	367	B22	140+	LMC	9	5YR4/3	Reddish brown		1.0			1	S/M	3 D/P	1(130)
317	366	A1	15	MC	6	7.5YR3/1	Very dark grey		1.7			0	M		2
317	366	B21	75	MHC	7.5	7.5YR3/2	Dark brown		1.0			0	S		2
317	366	B22	140+	LMC	9	7.5YR3/3	Dark brown		1.0			1	S/M	3 D	1(130)
318	365	A1	12	MC	6	7.5YR3/2	Dark brown		1.0			0	M		2
318	365	B1	50	MC	7.5	7.5YR3/2	Dark brown		0.3			0	S/M		2
318	365	B21	80	LMC	7.5	7.5YR3/2	Dark brown		0.7			1	S	1 D	3
318	365	B22	140+	LMC	8	7.5YR4/6	Strong brown		1.2			1	S/M	5 N/D	1(120)
319	343	A1	5	MC	6.5	2.5YR2.5/1	Reddish black		1.9			0	M		2
319	343	B1	45	MC	8	2.5YR3/1	Dark reddish grey		1.5			0	M		3
319	343	B21	85	MC	9.5	2.5YR3/1	Dark reddish grey		0.8			0	M	2 D	1
319	343	B22	140+	MC	9.5	5YR3/3	Dark reddish brown		0.7			0	S	5 D/N	0
320	334	A1	18	LC	6.5	5YR3/3	Dark reddish brown		0.5	1			S		3
320	334	B2	45	MC	7	5YR4/4	Reddish brown		1.1				M		3
320	334	BC1	95	LMC	8.5	7.5YR5/6	Strong brown		1.4				S	30 P/D	1
320	334	BC2	140+	LC	9.5	7.5YR7/6	Reddish yellow	Slight Grey	1.4				S	50 P/D	1(105)
321	335	A1	15	SL	6	7.5YR4/3	Brown		1.3			1	S		2
321	335	B1	55	SCL	6.5	7.5YR4/6	Strong brown		1.1			2	M		2
321	335	B2	140+	LMC	8	7.5YR5/6	Strong brown	Grey	0.8	2		0	S		1
322	355	A1	12	CS	5	7.5YR4/4	Brown		1.6			0	S		4
322	355	A3	33	SCL	5.5	7.5YR5/6	Strong brown		1.2			0	S		2
322	355	2Ab	48	SLC	6	7.5YR5/6	Strong brown		1.2	10		0	S		3
322	355	2Ab	90	LMC	9	7.5YR5/8	Strong brown		1.0			0	S		1
322	355	BC	130							85					1
322	355	C	140+	Conglomerate											
323	236	A11	15	SL	5.5	10YR3/2	Very dark greyish brown		1.8	10		0	M		3
323	236	A12	30	SCL	6	10YR4/2	Dark greyish brown		1.6	10		0	M		2
323	236	A3	50	SCL	6.5	10R5/3	Weak red		1.6	50		0	M		2
323	236	B2	80	MC	7	10YR5/6	Yellowish brown		1.5			0	M		1
323	236	C	140+	SCL	7	5YR4/4	Reddish brown	Grey	1.0	100	Mn	0	S/M		1
324	237	A1	20	SCL	5	2.5YR4/3	Reddish brown		1.8	1		2	M		3
324	237	A2	40	SCL	6	2.5YR3/4	Dark reddish brown		1.5	1		1	S/M		2

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324	237	A3	60	SCL	6.5	2.5YR4/4	Reddish brown		1.2	3		0	S/M		2
324	237	B2	100	MHC	7.5	2.5YR4/6	Red		1.1			0	S/M		1
324	237	B2	140+	LMC	7.5	2.5YR4/3	Reddish brown		0.9			0	D	20 N	0
325	238	A1	15	SLC	5	2.5YR3/2	Dusky Red		1.8	20		0	S/M		3
325	238	B1	30	MC	7	2.5YR3/4	Dark reddish brown		1.5	5		1	S/M		2
325	238	B2	50	MHC	8	2.5YR4/4	Reddish brown		1.5	10		0	M		2
325	238	B2	100	MHC	8	2.5YR4/4	Reddish brown		1.3	10		0	S/M	10 N	2
325	238	B3	140+	MC	8	2.5YR3/3	Dark reddish brown		0.8	10	Mn	0	S/M	5 N	0
326	232	A1	15	SL	6	7.5YR3/2	Dark brown		1.8	5		2	M		3
326	232	A3	30	SCL	6.5	7.5YR4/3	Brown		1.6	5		2	M		3
326	232	B1	60	MC	7.5	7.5YR4/4	Brown		1.6	15		0	M		2
326	232	B2	100	MHC	8	10YR5/4	Yellowish brown	Red	1.0	15		0	S/M		1
326	232	B3	140+	MC	8.5	5YR4/4	Reddish brown		1.0	15	Mn	0	S/M	10 N	1
327	388	A1	15	CS	5	2.5YR3/3	Dark reddish brown		1.7	20		0	S/M		3
327	388	2A	40							95					3
327	388	3B	70	LC	6.5	2.5YR3/6	Dark red		1	30		0	S		3
327	388	C	80	Sandstone											
328	390	A1	15	SL	5	5YR3/3	Dark reddish brown		1.5	10		0	5		4
328	390	A3	45	CS	5	5YR4/3	Reddish brown		1.5	70		0	5		3
328	390	C	50+	Sandstone											
329	393	A1	12	SLC	5.5	7.5YR3/2	Dark brown		1.5	5		0	S		3
329	393	2A	32	LC	5	5YR2.5/2	Dark Reddish Brown		0.8	60		0	S/M		3
329	393	3B21	60	MC	9	10R4/2			0.7			1	S	1 D	1(55)
329	393	3B22	140+	MC	8.5	10R5/8			1.1			0	S	10 D/P	
330	396	A1	20	MC	6	5YR3/3	Dark reddish brown		1.1	1		0	M		1
330	396	B1	35	MHC	6.5	5YR3/3	Dark reddish brown		1.4			0	M		1
330	396	B2	140+	MC	8	5YR4/3	Reddish brown		0.8			0	S	20 P/D	2(130)
331	400	A1	13	MHC	7.5	5YR2.5/2	Dark Reddish Brown		1.9			0	M		3
331	400	B1	35	HC	8.5	5YR2.5/2	Dark Reddish Brown		1.8			0	M		2
331	400	B21	80	MHC	8	5YR2.5/2	Dark Reddish Brown		1.1			0	S/M	10 N/D	1
331	400	B22	140+	HC	9	5YR4/3	Reddish brown		1.1			1	M	1 D	1(120)
332	399	A1	10	MHC	5.5	7.5YR3/2	Dark brown		0.8	2		0	M		2
332	399	B1	40	MHC	6.5	7.5YR3/1	Very dark grey		1	1		0	S/M		2
332	399	B21	90	MHC	8.5	7.5YR3/1	Very dark grey		1.1	1		0	S/M	1 D	2
332	399	B22	140+	MHC	9	5YR4/4	Reddish brown		1.2			0	M	3 D	1(130)
333	404	A1	5	MC	5.5	5YR2.5/2	Dark Reddish Brown		1.8			0	S		2
333	404	B1	30	HC	7	5YR2.5/2	Dark Reddish Brown		1.7			0	M		2
333	404	B21	105	HC	7	5YR2.5/2	Dark Reddish Brown		1.2			0	S	1 N	2
333	404	B22	140+	MC	9.5	5YR4/3	Reddish brown		1			0	S/M	10 P/D	1
334	375	A1	15	SCL	6.5	5YR3/3	Dark reddish brown		1.7			0	S		2
334	375	B1	60	SLC	6	5YR4/4	Reddish brown		1.1			0	S		1
334	375	B2	140+	LC	7.5	5YR5/6	Yellowish red		1.2			0	S		2
335	371	A11	10	SL	5	5YR4/3	Reddish brown		1.0	2		0	S/M		2

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335	371	A12	20	SL	5	5YR4/3	Reddish brown		1.5	20		0	M		2
335	371	B1	50	SCL	5	5YR4/4	Reddish brown		1.7	70		0	S/M		2
335	371	B1	78	SLC	6.5	5YR5/6	Yellowish red	Slight Grey	1.8	5	Mn	0	S/M		1
335	371	C	90+	Sandstone											
336	370	A1	12	SCL	5	5YR3/3	Dark reddish brown		1.8			0	S		4
336	370	B2	45	SLC	4.5	2.5YR3/6	Dark red		1.6			0	S/M		3
336	370	BC	110	SLC	6	2.5YR3/6	Dark red		1.7			0	S		3
336	370	C	120+	Basalt											
337	368	A1	13	MC	5.5	7.5YR3/1	Very dark grey		0.3/0.7			0	M		1
337	368	B1	32	MHC	6.5	7.5YR3/1	Very dark grey		0.9			0	M		1
337	368	B21	80	MHC	8	7.5YR3/1	Very dark grey		1.0	1		0	S/M		2
337	368	B22	140+	LMC	9	7.5YR3/3	Dark brown		1.0			0	S/M	5 P/10	1
338	369	A1	15	MC	6	7.5YR3/2	Dark brown		1.9			0	M		2
338	369	B1	45	HC	8.5	7.5YR3/2	Dark brown		1.5			0	S/M	5 D	2
338	369	B21	105	MC	9	7.5YR3/2	Dark brown		0.8			0	S	10 D/P	2
338	369	B22	140+	MC	8	7.5YR3/3	Dark brown		0.9			1	S	3 N	2
339	342	A1	5	MC	6	5YR2.5/2	Dark Reddish Brown		1.6			0	M		3
339	342	B1	35	MHC	7.5	5YR3/2	Dark reddish brown		1.3			0	M		4
339	342	B21	100	MC	8	5YR3/2	Dark reddish brown		1.2			0	S	2 D	3
339	342	B22	140+	MC	8.5	7.5YR3/4	Dark brown		0.9			0	S	5 D/N	1
340	341	A1	2	MC	5.5	5YR2.5/2	Dark Reddish Brown		1.9			0	M		3
340	341	A3	32	MC	7.5	5YR3/1	Very Dark Grey		1.7			0	S/M		3
340	341	B21	60	MC	8.5	7.5YR3/1	Very dark grey		1.1			0	S/M	2 D	3
340	341	B22	140+	MC	9	7.5YR3/1	Very dark grey		1.2			0	S/M	5 D/P	2
341	333	A1	7	LC	5.5	5YR3/3	Dark Reddish Brown		1.3			0	S		3
341	333	A1	15	LC	5.5	5YR3/3	Dark reddish brown		0.8			0	S		3
341	333	B21	55	LC	6	2.5YR4/4	Reddish brown		1.2			1	S/M		2
341	333	B22	78	LMC	6.5	2.5YR4/3	Reddish brown		1.0			0	S		2
341	333	B23	90	LMC	8	7.5YR5/6	Strong brown	Slight Grey	1.2			0	S	1 D	2
341	333	BC	140+	LC	9	7.5YR4/4	Brown		1.4			0	S	30 P/D	1
342	353	A1	10	SCL	5.5	5YR3/3	Dark reddish brown		0.4			0	S/M		2
342	353	A3	40	SL	5.5	2.5YR3/4	Dark reddish brown		0.6	1		0	S		3
342	353	B21	77	LC	7.5	5YR4/6	Yellowish red		1.0	1		0	S		2
342	353	B22	140+	LC	5.5	7.5YR4/6	Strong brown	Grey Mottle	1.3	3	Mn	0	S		1(90)
343	354	A1	10	SL	5	7.5YR3/3	Dark brown		1.3			0	S		3
343	354	A3	42	SCL	5.5	5YR4/4	Reddish brown		1.0			0	S/M		2
343	354	B21	80	LC	7	7.5YR4/6	Strong brown		0.7	2	Mn	0	S		2
343	354	B22	140+	LC	7.5	7.5YR5/6	Strong brown	Grey	0.4	5	Mn	0	S		1(130)
344	356	A1	12	SCL	5.5	7.5YR3/3	Dark brown		1.2			0	S		3
344	356	B1	42	SLC	5.5	5YR4/6	Yellowish red		0.9			0	S		3
344	356	B21	80	LC	6.5	7.5YR5/6	Strong brown	Slight Grey	0.9	3	Mn	0	S		2
344	356	B22	140	LC	8.5	7.5YR5/6	Strong brown	Red & Grey	1.0	10	Mn	0	S		2

Map ID Feb '14	Field Site ID	Horizon	Lower Depth cm	Texture	pH Water	Moist Soil Colour (Munsell)	Colour from Munsell Sheet	Mottles	SOILpak compaction score	Coarse fragments %	Mn?	Dispersion 10 minutes	Moisture	Lime % Type	Root score
344	356	C	145+	Lime-enriched siltstone											
345	357	A1	15	CS	5	7.5YR3/3	Dark brown		0.8			0	D		2
345	357	2Ab	42	SCL	6	7.5YR3/3	Dark brown		1.2			2	M		2
345	357	3Ab	58	LS	6	7.5YR4/4	Brown		0.3			0	M		2
345	357	4Ab	85	SLC	6.5	7.5YR4/3	Brown	Grey	0.7	5		1	S		2
345	357	5Ab	110	SCL	7	7.5YR5/4	Brown		1.3	2	Mn	1	S		1
345	357	6Ab	140+	SL	7.5	7.5YR5/4	Brown		1.2			2	S	10 D	1
346	358	A11	10	SCL	8	5YR2.5/2	Dark Reddish Brown		1.8	2		0	S		3
346	358	A12	30	SL	5	5YR3/3	Dark reddish brown		1.7	10		0	S		4
346	358	A2	55	SL	7	5YR4/4	Reddish brown		1.5	80		0	S		4
346	358	B21	85	LMC	6.5	5YR4/6	Yellowish red	Grey	0.8			0	S		1
346	358	B22	110	MC	9	5YR6/6	Reddish yellow	Strong Grey	0.7			0	S	2 D	0
346	358	BC	140+	LC	7	5YR6/3	Light reddish brown	All Mottle	0.5			0	S/M		0
347	387	A1	5	SL	5.5	7.5YR4/3	Brown		1.6	5		0	S/M		3
347	387	B21	25	LMC	4.5	7.5YR4/4	Brown		0.9	10		0	S		3
347	387	B22	70	LC	7	7.5YR4/6	Strong brown		1.1	10		0	S		2
347	387		72+	Conglomerate											
348	391	A11	10	LMC	5.5	7.5YR3/2	Dark brown		0.4			0	S		2
348	391	A12	25	LMC	6	7.5YR4/2	Brown		0.8			0	S		3
348	391	B21	40	MC	8.5	7.5YR4/2	Brown		0.8			1	S	15 P/D	2
348	391	B22	85	MC	9	10YR6/3	Pale brown		0.7			0	S/M	20 D	1
348	391	B23	110	LMC	9	10YR6/4	Light yellowish brown	Grey	0.6			0	S/M	1 D	1(60)
348	391	B24	140+	LMC	4.5	2.5YR6/3	Light reddish brown		1.4			0	S/M		
349	394	A1	7	LC	5	5YR3/2	Dark reddish brown		1.3	10		0	S		3
349	394	B1	30	MC	3.5	5YR5/4	Reddish brown		0.7	10		0	S		2
349	394	B21	70	MC	8.5	7.5YR5/4	Brown		0.7	10		0	S/M	20 P/D	1
349	394	B22	140+	LMC	8	5YR4/3	Reddish brown	Grey	0.8	20		0	S/M	30 P/D	0
350	401	A1	18	MHC	6.5	5YR3/2	Dark reddish brown		0.9	1		0	M		1
350	401	B21	60	MC	9	5YR4/3	Reddish brown		0.7			0	S/M	2 N	1
350	401	B22	140+	LMC	9.5	5YR4/3	Reddish brown		1.3			0	S/M	5 D/P	1(100)
351	402	A1	5	SLC	5.5	7.5YR4/2	Brown		1.3	20		0	S		3
351	402	2Ab	15	MC	6	7.5YR4/2	Brown		0.8			0	S		2
351	402	3A	40	SLC	7	7.5YR4/3	Brown		0.9			0	S		1
351	402	4A	70	LS	8	5YR4/4	Reddish brown		1.0			0	S	1 N	1
351	402	5B	140+	MC	6.5	7.5YR4/6	Strong brown	Grey	0.4	2	Mn	0	S	3 N	1
352	403	A1	20	SLC	8	7.5YR4/3	Brown		1.5	10		0	S	5 D	2
352	403	2Ab	43	Banded: CS-LC	8	7.5YR4/3	Brown		0.9/1.7	10		1	S/M	10 D	2
352	403	3B21	110	MC	7	2.5Y2.5/1			1.1			0	S		2
352	403	3B22	140+	MC	9	2.5Y2.5/1			1			0	S/M	5 D	1(130)
353	279	A1	15	HC	7	10YR3/1	Very dark grey		1.6			0	S/M		2
353	279	B1	30	HC	8.5	10YR3/1	Very dark grey		1.7			2	M		2
353	279	B2	60	HC	8.5	10YR3/1	Very dark grey		1.6			2	D	2 N	2

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353	279	B3	100	HC	8.5	10YR4/2	Dark greyish brown		1.6			1	D	10 N	1
353	279	C	140+	MHC	8.5	10YR4/3	Brown		0.8			0	D	20 N	1
354	280	A1	15	FSL	4.5	7.5YR3/2	Dark brown		1.6	60		0	D		3
354	280	A3	30	FSCL	4.5	7.5YR3/3	Dark brown		1.6	70		0	D		3
354	280	B2	60	SLC	5.5	7.5YR4/3	Brown		1.6	70		0	D		2
354	280	B3	90	SL	5	7.5YR6/2	Pinkish grey	Red	1.4	95	Mn	2	D		2
354	280	C	100+												
355	296	A1	15	SCL	5.5	2.5YR3/2	Dusky Red		1.7	60		0	D		3
355	296	A2	30	SL	5.5	2.5YR5/2	Weak red		1.4	80		2	D		2
355	296	B2	50	MHC	6.5	2.5YR4/6	Red		0.5	10		1	S/M		1
355	296	B3	100	MHC	8	10YR5/6	Yellowish brown	Red	0.5	10	Mn	0	D		1
355	296	C	140+	MC	8.5	10YR5/4	Yellowish brown	Grey	0.3	60	Mn	0	D	30 N	0
356	282	A1	15	MHC	6.5	1G2.5/N	Black		1.6			3	S/M		3
356	282	B21	30	MHC	7.5	1G2.5/N	Black		1.6			2	M		2
356	282	B22	60	MHC	8	1G2.5/N	Black		1.6			1	M		2
356	282	B3	100	MHC	8.5	1G3/N	Very dark Grey		1.4			1	S/M		1
356	282	BC	140+	LC	8.5	10YR4/4	Dark yellowish brown		0.5			1	S/M	20 N	0
357	281	A1	15	MHC	8	7.5YR3/1	Very dark grey		1.9			0	S/M		3
357	281	B21	30	MHC	8.5	7.5YR3/1	Very dark grey		1.8			0	M		3
357	281	B22	60	MHC	8.5	7.5YR3/1	Very dark grey		1.6			1	M	2 N	2
357	281	B3	100	MHC	8.5	7.5YR3/2	Dark brown		1.6			1	M		2
357	281	B3	140+	MC	8.5	7.5YR3/3	Dark brown		1.5			0	M	5 N	1
358	294	A1	15	SCL	4.5	2.5YR3/2	Dusky Red		1.6	50		0	D		2
358	294	B21	30	MHC	7.5	2.5YR3/4	Dark reddish brown		1.5	10		3	M		1
358	294	B22	60	MHC	9	2.5YR4/3	Reddish brown		1.4	10		0	M		1
358	294	B3	100	MHC	9	2.5YR4/4	Reddish brown		1.2	10	Mn	0	S/M	20 N	0
358	294	C	140+	MC	9	5YR4/4	Reddish brown		0.8	20	Mn	0	S/M	20 N	0
359	295	A1	15	SCL	5	5YR3/2	Dark reddish brown		1.7	60		0	D		3
359	295	A3	40	SLC	5	5YR3/3	Dark reddish brown		1.6	80		0	S/M		3
359	295	B1	60	MC	5	5YR4/3	Reddish brown		1.4	60		0	M		1
359	295	B2	100	MHC	5	10YR5/6	Yellowish brown	Grey	1.0	50		0	M		1
359	295	C	120+	HC	5	10YR6/1	Grey	Brown	0.5	50	Mn	0	D		0
360	125	A	5	MC	5.5	7.5YR3/2	Dark brown		1.5			2	S/M		
360	125	A1	25	HC	6.5	7.5YR4/2	Brown		0.8			2	M		1
360	125	B21	50	HC	8.5	7.5YR4/3	Brown		0.5			1	M	1 D	1
360	125	B22	95	MC	9	7.5YR4/3	Brown		0.4			0	S/M	30 P/N	1
360	125	B23	140+	LMC	8.5	7.5YR4/4	Brown		0.9			0	S	2 N/D	1(105)
361	283	A1	15	MHC	5.5	10YR3/3	Dark Brown		1.0			0	S/M		2
361	283	B1	30	MHC	6	10YR3/3	Dark Brown		1.3			0	S/M		2
361	283	B2	50	MHC	8.5	10YR3/3	Dark Brown		1.3			0	S/M	10 N	1
361	283	B3	100	LMC	8.5	10YR3/4	Dark Yellowish brown		0.8			0	S/M	50 N	1
361	283	BC	140+	LMC	8.5	10YR3/4	Dark Yellowish brown		0.5			0	D	10 N	0
362	284	A1	15	MHC	7	10YR3/1	Very dark grey		1.6			0	S/M		3

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362	284	B1	30	MHC	7	10YR3/1	Very dark grey		1.6			0	M		3
362	284	B2	50	MHC	8	10YR4/3	Brown		1.6			0	M	1 N	3
362	284	B3	80	MHC	8.5	10YR4/4	Dark yellowish brown		1.2			0	S/M	30 N	1
362	284	D	140+	LS	8	10YR4/4	Dark yellowish brown		0.5	10		0	D	30 D	1
363	285	A1	15	SLC	5.5	10YR3/2	Very dark greyish brown		1.1	10		0	D		3
363	285	A3	30	LMC	6	10YR3/3	Dark Brown		1.1	10		0	D		2
363	285	B21	60	MC	8.5	10YR4/3	Brown		0.8	10		0	D	20 N	1
363	285	B3	100	SLC	7.5	10YR4/4	Dark yellowish brown	Grey	0.8	80	Mn	0	S/M	5 N	1
363	285	C	140+	FSCL	9	10YR4/6	Dark yellowish brown		0.5	90	Mn	0	D	5 N	0
364	293	A1	15	SL	5	7.5YR3/2	Dark brown		1.5	80		0	D		2
364	293	A3	30	SCL	6	7.5YR4/3	Brown		1.4	80		0	S/M		2
364	293	B2	60	SLC	7	10YR4/6	Dark yellowish brown		1.4	80		2	M		2
364	293	2B2	100	MHC	8	10YR4/4	Dark yellowish brown	Brown	1.0	30	Mn	0	M	10 N	1
364	293	2B2	140+	MHC	8.5	10YR4/3	Brown	Red	0.5		Mn	0	M	10 N	1
365	292	A1	15	SL	5	7.5YR3/2	Dark brown		1.6	80		0	D		3
365	292	A3	30	SCL	5.5	7.5YR4/4	Brown		1.4	80		0	S/M		2
365	292	B2	60	SLC	6	7.5YR4/3	Brown		1.4	90		0	M		2
365	292	2B1	100	MHC	7.5	2.5YR5/6	Red		1.3	10		0	M		1
365	292	2B2	140+	MHC	8	2.5YR5/4	Reddish brown		1.0	10	Mn	0	D	20 N	1
366	124	Ap	5	LMC	6	7.5YR3/3	Dark brown		0.8			0	S/M		0
366	124	A1	15	MHC	6.5	7.5YR3/3	Dark brown		0.7			2	M		2
366	124	B1	65	LMC	8	7.5YR4/4	Brown		1.1			0	M	0-15 sh pock	0
366	124	B2	140+	LMC	9	7.5YR4/4	Brown		0.9			0	S/M	20 P/D	0
367	126	A1	12	MC	6.5	7.5YR3/2	Dark brown		1.3			3	M		3
367	126	B21	60	HC	9.5	7.5YR3/3	Dark brown		1.2			0	M	2 D	2(40)
367	126	B22	130	LMC	9.5	7.5YR4/3	Brown		0.5			0	S	15 D/P	1(70)
368	286	A1	15	MHC	6	10YR3/2	Very dark greyish brown		1.5	2		0	S/M		2
368	286	B21	30	MHC	7	7.5YR3/3	Dark brown		1.0	2		2	S/M		2
368	286	B22	60	MHC	8.5	7.5YR3/3	Dark brown		1.0	5		1	S/M	2 N	2
368	286	B3	100	LC	8.5	10YR4/3	Brown		0.8	5		1	D	5 N	1
368	286	B3	140+	MHC	7.5	10YR3/2	Very dark greyish brown		0.5	5		0	D	40 N	0
369	287	A1	15	FSL	6	7.5YR3/3	Dark brown		1.8	80		0	D		3
369	287	A3	30	FSCL	6.5	7.5YR3/3	Dark brown		1.6	80		0	D		3
369	287	B21	60	MHC	8	10YR5/6	Yellowish brown		0.5	10		0	D	10 N	1
369	287	B22	100	MHC	8	10YR4/4	Dark yellowish brown		0.5			0	D	60 N	1
369	287	B3	140+	LMC	8.5	10YR4/4	Dark yellowish brown		0.8	10	Mn	0	S/M	60 N	1
370	290	Wash	15	LS	5.5	10YR4/3	Brown		1.4	90		0	D		3
370	290	A1	30	FSCL	6	7.5YR3/2	Dark brown		1.4	90		0	D		2
370	290	B21	60	SLC	6	7.5YR3/2	Dark brown		0.8	90	Mn	0	S/M		1
370	290	B22	100	FSCL	6	7.5YR4/4	Brown		0.5	90		0	S/M		1
371	291	A1	15	FSL	5.5	5YR3/2	Dark reddish brown		1.8	80		0	D		3
371	291	A3	30	FSCL	6	5YR3/3	Dark reddish brown		1.6	80		0	S/M		3
371	291	B2	60	SLC	7	5YR4/4	Reddish brown		1.4	80		0	M		2

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371	291	D1	110	MHC	8	2.5YR5/4	Reddish brown	Grey	1.0	0		0	M		1
371	291	D2	140+	SLC	8.5	2.5YR5/4	Reddish brown	Grey	0.2	95		0	S/M	3 N	0
372	278	A1	15	MHC	6	10YR3/1	Very dark grey		1.8			1	S/M		2
372	278	B2	50	HC	7.5	10YR4/3	Brown		1.5			0	S/M	2 N	2
372	278	B3	100	MHC	8.5	10YR4/4	Dark yellowish brown		0.8			0	D	50 N	1
372	278	C	140+	MC	9	10YR3/4	Dark Yellowish brown		0.8			1	D	50 N	1
373	123	A	5	LMC	6	7.5YR3/2	Dark brown		0.7			3	S/M		
373	123	A1	30	MHC	7.5	7.5YR3/3	Dark brown		0.4			2	M		1
373	123	B1	55	HC	9.5	7.5YR4/2	Brown		0.8			1	M	10 D/P	1
373	123	B2	140+	LMC	9.5	7.5YR4/3	Brown		0.9			0	S/M	20 D/P	1(70)
374	127	A11	8	FSCL	5.5	5YR3/2	Dark reddish brown		1.6			0	S/M		4
374	127	A12	17	FSCL	5.5	7.5YR3/3	Dark brown		0.6			2	M		3
374	127	B21	50	MHC	8	7.5YR4/4	Brown		0.5			2	M		2
374	127	B22	90	SLC	9	7.5YR4/4	Brown		0.9			3	S/M	3 P	1(70)
374	127	B23	140+	SLC	9.5	7.5YR4/3	Brown		0.8			0	S/M	1 P	
375	289	A11	15	SL	4.5	10YR3/2	Very dark greyish brown		1.8	80		0	D		3
375	289	A12	60	LS	5.5	10YR3/3	Dark Brown		1.6	80		0	S/M		3
375	289	B2	90	SCL	5.5	10YR4/4	Dark yellowish brown	Red	1.0	90		0	M		1
375	289	B3	120+	SCL	6	10YR4/2	Dark greyish brown	Brown	0.8	70	Mn	0	S/M		1
376	288	A11	15	SL	5.5	2.5YR3/2	Dusky Red		1.8	80		0	D		3
376	288	A12	50	FSCL	6	2.5YR3/4	Dark reddish brown		1.8	80		0	D		3
376	288	B2	80	LMC	8	2.5YR4/6	Red		0.8	90		0	D		2
376	288	B3	120+	SCL	8.5	7.5YR6/6	Reddish yellow		0.5	90		0	D	20 D	1
377	138	A11	8	CL	4.5	5YR3/2	Dark reddish brown		1.9	5		0	S/M		4
377	138	A12	22	CL	5.5	5YR3/3	Dark reddish brown		1.8	20		0	M		4
377	138	B1	50	LC	7	5YR4/3	Reddish brown		1.7	30		3	M		3
377	138	B2	70	LC	7.5	10YR5/6	Yellowish brown	Grey	1.5	50		0	W		2
377	138		80+												
378	139	A1	12	SL	6	5YR3/2	Dark reddish brown		1.7	20		1	M		2
378	139	A3	50	SL	6	5YR4/4	Reddish brown		1.6	30		2	M		1
378	139	B1	100	SCL	7.5	5YR5/6	Yellowish red		1.5	20		2	M		1(70)
378	139	B2	140+	SCL	8.5	7.5YR4/4	Brown		1.3	10	Mn	1	S/M		
379	120	A1	15	MC	7.5	7.5YR3/2	Dark brown		1.8			2	M		1
379	120	B1	45	M	8.5	7.5YR3/2	Dark brown		0.7			1	W		1
379	120	B2	50	MHC	9	7.5YR4/2	Brown		0.9			0	M		1
379	120	B3	140+	LMC	9	7.5YR4/3	Brown	Yellow	1.0			0	S/M	10 B	0
380	130	A1	10	CL	5.5	7.5YR3/3	Dark brown		1.8			1	S/M		3
380	130	A3	20	CL	6	7.5YR3/3	Dark brown		1.7			0	M		4
380	130	B1	40	LC	6	5YR4/4	Reddish brown		1.8			0	M		4
380	130	C	45+	Conglomerate											
381	152	A11	5	SL	5.5	5YR4/2	Dark reddish grey		1.7	10		1	S/M		2
381	152	A12	20	SCL	5.5	2.5YR3/3	Dark reddish brown		1.7	20		0	M		4
381	152	B21	48	LC	6	2.5YR4/4	Reddish brown		1.5	30		2	M		3

Map ID Feb '14	Field Site ID	Horizon	Lower Depth cm	Texture	pH Water	Moist Soil Colour (Munsell)	Colour from Munsell Sheet	Mottles	SOILpak compaction score	Coarse fragments %	Mn?	Dispersion 10 minutes	Moisture	Lime % Type	Root score
381	152	B22	70	LC	7.5	2.5YR4/6	Red	Grey	1.4	20		0	M		2
381	152	C	72+	Sandstone/ Conglomerate											
382	151	A11	10	SCL	5.5	7.5YR3/3	Dark brown		1.8	40		0	S/M		3
382	151	A12	25	SCL	6.5	7.5YR3/3	Dark brown		1.8	60		0	M		3
382	151	B1	50	LC	6	7.5YR3/4	Dark brown		1.6	40	Mn	1	M		3
382	151	B2	80	LC	7.5	7.5YR5/8	Strong brown	Grey	1.5	20		0	M		2
382	151	C	85+	Conglomerate											
383	146	A1	12	SCL	5.5	7.5YR3/2	Dark brown		1.7	30		0	M		3
383	146	A3	45	SCL	6.5	7.5YR4/3	Brown		1.6	20		1	M		3
383	146	B21	60	LMC	7.5	7.5YR5/4	Brown		1.2	40		2	M		2
383	146	B22	110	LMC	9	10YR6/6	Brownish yellow	Strong Red Grey	0.8	5		0	S		1(80)
383	146	C	120+	Conglomerate											
384	145	A1	20	CL	6	5YR3/2	Dark reddish brown		1.8	30		0	S/M		3
384	145	B1	50	LMC	6	5YR4/4	Reddish brown		1.5	10		2	M		2
384	145	B21	85	LMC	6.5	7.5YR5/8	Strong brown	Grey	1.2	30		0	M		1
384	145	B22	105	LMC	7	10YR6/8	Brownish yellow	Grey	0.8	10		0	S		1
384	145	C	110+	Conglomerate											
385	140	A11	15	SL	5	7.5YR3/2	Dark brown		1.7	60		1	S/M		3
385	140	A12	35	SL	5.5	7.5YR4/3	Brown		1.6	20		1	M		4
385	140	B21	70	LMC	7.5	7.5YR5/6	Strong brown	Strong Grey	1.0	2		2	M		1
385	140	B22	140+	LMC	9	10YR5/6	Yellowish brown	Strong Grey	0.4	1		5	S		1
386	143	A1	15	SL	6	7.5YR3/2	Dark brown		1.7	15		0	M		3
386	143	A3	60	Sly	6.5	10YR5/3	Brown		1.4			3	M		1
386	143	B2	140+	SLC	7.5	10YR5/3	Brown	Yellow	0.7	1		3	S		1(70)
387	128	A1	10	MHC	6	7.5YR3/2	Dark brown		0.6			2	M		2
387	128	B1	45	HC	8.5	10YR3/2	Very dark greyish brown		0.9			0	M		2
387	128	B21	90	MHC	8.5	10YR4/2	Dark greyish brown		0.7			0	S/M		2
387	128	B22	140+	MC	9	10YR4/4	Dark yellowish brown		0.8			0	S	10 N/D	1(110)
388	131	A1	15	MHC	6	7.5YR3/1	Very dark grey		0.5			2	M		3
388	131	B21	45	MC	7.5	7.5YR2.5/1	Black		1.0			0	S/M		3
388	131	B22	90	MC	8.5	7.5YR2.5/1	Black		1.1			0	S/M		2
388	131	B23	140+	LMC	9	7.5YR4/3	Brown		1.2			0	S	10 N/D	1
389	136	A11	10	SCL	6	2.5YR3/3	Dark reddish brown		1.9	40		0	M		3
389	136	A12	25	SCL	6	2.5YR3/4	Dark reddish brown		1.8	70		3	M		3
389	136	B21	65	LC	6.5	2.5YR4/6	Red		1.8	50		2	M		2
389	136	B22	85	MC	6.5	7.5YR5/6	Strong brown	Grey	1.0	30		1	M		1
389	136	C	140+	Decomposing Conglomerate											1(120)
390	147	A11	15	SCL	6	2.5YR3/1	Dark reddish grey		1.7	40		0	S		3
390	147	A12	40	SCL	6	2.5YR3/3	Dark reddish brown		1.7	70		0	S/M		3
390	147	B21	65	LC	6	2.5YR4/4	Reddish brown		1.6	80		0	M		3
390	147	B22	100	LC	6	7.5YR5/6	Strong brown	Grey	1.6	80		0	S		2

Map ID Feb '14	Field Site ID	Horizon	Lower Depth cm	Texture	pH Water	Moist Soil Colour (Munsell)	Colour from Munsell Sheet	Mottles	SOILpak compaction score	Coarse fragments %	Mn?	Dispersion 10 minutes	Moisture	Lime % Type	Root score
390	147	C	110+	Conglomerate											
391	141	A1	8	MC	6.5	2.5YR3/3	Dark reddish brown		1.2	5		2	S		3
391	141	B1	18	HC	8.5	2.5YR4/6	Red		0.9				M	5 D	2
391	141	B2	100	MHC	9.5	10YR5/3	Brown		0.8				S	30 PD	1(90)
391	141	B3	140+	LMC	10	2.5YR7/2	Pale red	Yellow Grey	0.4	40	Mn		S	10 D	
392	144	A11	15	SCL	5.5	7.5YR3/2	Dark brown		1.8	5		1	S/M		3
392	144	A12	45	SCL	6.5	7.5YR4/3	Brown		1.4	40		1	M		3
392	144	B21	75	MC	8	10YR5/4	Yellowish brown	Grey	0.9	5		0	M		1
392	144	B22	100	MC	8.5	10YR6/6	Brownish yellow		0.4			0	S	1 D	1
392	144	B23	140	MC	9.5	10YR6/6	Brownish yellow		0.2	10		0	S	20 P/D	
393	129	A1	10	MHC	6	10YR3/2	Very dark greyish brown		0.6			3	M		2
393	129	B1	40	HC	8.5	10YR3/1	Very dark grey		1.0			2	M		3
393	129	B21	80	MC	9.5	10YR3/2	Very dark greyish brown		1.0			1	S/M	1 D	2
393	129	B22	140+	LMC	9.5	10YR4/3	Brown		0.7			0	S/M	5 P/D	1
394	132	A1	15	LMC	6.5	7.5YR3/2	Dark brown		0.6			3	M		2
394	132	B21	40	MHC	7.5	7.5YR4/2	Brown		0.7			2	W		3
394	132	B22	70	MHC	9.5	7.5YR4/3	Brown		0.8			1	S/M	3 N/D	1
394	132	B23	140+	LMC	8.5	7.5YR4/4	Brown		0.7			0	S	20 P/D	1(120)
395	121	A1	10	MHC	7.5	7.5YR3/2	Dark brown		1.3			3	M		1
395	121	B1	50	MHC	9.5	7.5YR3/2	Dark brown		1.3			2	M	3 D	1
395	121	B2	140+	LMC	9.5	7.5YR4/4	Brown		0.9			0	S/M	10 P/D	1(60)
396	137	A1	10	SL	6	10YR3/2	Very dark greyish brown		1.7	2		1	M		2
396	137	A2	25	SL	6	10YR5/3	Brown		1.6	5		1	M		2
396	137	B21	35	MHC	7	10YR6/2	Light brownish grey	Slight Yellow	0.7			3	M		1
396	137	B22	60	MC	8	10YR6/2	Light brownish grey	Strong Yellow	0.9			0	M		1(55)
396	137	C	65+	Conglomerate											
397	148	A1	20	SL	5.5	2.5YR3/2	Dusky Red		1.8	60		0	S		4
397	148	A3	40	SCL	4.5	2.5YR4/4	Reddish brown		1.6	60		1	S/M		4
397	148	B2	90	LC	5	2.5YR4/8	Red		1.6	60		0	S		3
397	148	BC	140+												2(110)
398	142	A11	7	MHC	7.5	10YR2/1	Black		1.8	10		0	S		2
398	142	A12	18	MHC	9	10YR2/1	Black		0.9	5		0	M	5 D	2
398	142	B21	80	MHC	10	10YR2/1	Black		1.3	5		0	M	10 D/N	2
398	142	B22	140+	MHC	10	10YR3/1	Very dark grey		1.1			0	S	5 D/N	1
399	133	A11	10	HC	6	7.5YR4/2	Brown		0.5			3	M		2
399	133	A12	20	MHC	6.5	7.5YR3/2	Dark brown		0.8			3	W		3
399	133	B21	60	MHC	9	7.5YR4/3	Brown		0.9			1	M		2
399	133	B22	140+	MC	9	7.5YR5/4	Brown		0.8	5		0	S	10 N/D	1(90)
400	122	A1	10	LMC	9.5	7.5YR3/2	Dark brown		1.8			1	M	1 D	2
400	122	B1	55	HC	10	7.5YR4/2	Brown		0.8			2	M	5 D	1
400	122	B21	100	LMC	10	7.5YR4/3	Brown		0.6			1	S/M	10 D/P	0
400	122	B22	130+	LMC	10	7.5YR4/4	Brown		1.0			1	S	20 D/P	0
401	134	A11	8	CL	5	5YR3/2	Dark reddish brown		1.8	30		0	S		4

Map ID Feb '14	Field Site ID	Horizon	Lower Depth cm	Texture	pH Water	Moist Soil Colour (Munsell)	Colour from Munsell Sheet	Mottles	SOILpak compaction score	Coarse fragments %	Mn?	Dispersion 10 minutes	Moisture	Lime % Type	Root score
401	134	A12	30	LC	5.5	5YR3/3	Dark reddish brown		1.7	60		0	S/M		3
401	134	B21	50	LC	6	5YR4/4	Reddish brown		1.7	30		0	M		2
401	134	B22	90	LC	6	5YR4/6	Yellowish red	Yellow	1.6	40		0	M		1
401	134	B23	130+	LC	5.5	5YR4/6	Yellowish red	Grey	1.6	80		0	M		0
402	150	A11	12	SL	4.5	5YR3/2	Dark reddish brown		1.8	20		0	S/M		3
402	150	A12	30	SL	5.5	7.5YR4/3	Brown		1.7	40		0	M		3
402	150	B21	55	SLC	5	5YR4/6	Yellowish red		1.6	60		0	M		3
402	150	B22	75	SLC	4.5	7.5YR5/6	Strong brown	Red	1.5	70		0	S/M		2
402	150	BC	90+	Conglomerate											
403	149	A11	8	SL	5	2.5YR2.5/2	Very dusky red		1.7	20		0	S/M		2
403	149	A12	30	SL	4.5	5YR4/3	Reddish brown		1.7	40		0	M		4
403	149	A2	40	SL	4.5	5YR4/4	Reddish brown		1.4	60		0	S		3
403	149	B2	90	LC	4.5	2.5YR4/8	Red		1.4	60		0	S		2
403	149	C	130+	Siltstone											1
404	135	A1	20	HC	10	7.5YR3/2	Dark brown		0.3			3	M	5 D	2
404	135	B1	50	HC	10	7.5YR4/2	Brown		0.3			1	S	5 D	1
404	135	B21	90	LC	10	7.5YR4/4	Brown		0.9			0	S	10 P/D	1(60)
404	135	B22	140+	LC	10	7.5YR4/4	Brown		1.0			0	S	10 D	

Map ID	Field Site ID	Lower Depth	Grade	Type	Size	Fabric	Consistence	SOILpak score
1	318	15	M	BL/PO	10	RP	5	1.1
1	318	60	M	BL/PO	15	RP/SP	4	1.0
1	318	140+	M	LE	15	RP/SP	2	1.0
2	319	15	W	G				1.0
2	319	35	W	G				1.0
2	319	80	W	BL/LE	20	RP	3	0.8
2	319	140+	W	LE	15	RP	2	0.7
3	325	15	W	G				1.5
3	325	30	W	G				1.5
3	325	90	M	LE	15	RP	2	1.1
3	325	120	M	LE	12	RP	3	1.0
4	326	12	W	BL	10	E	4	1.1
4	326	22	M	PO	12	E	2	1.3
4	326	30	W	G				1.5
4	326	70	S	BL/CO	20	RP	5	0.6
4	326	140+	M	LE	8	RP	2	1.3
5	320	15	W	G				1.3
5	320	40	W	G				1.2
5	320	70	M	BL/LE	12	RP	5	0.7
5	320	130	S	BL/LE	15	RP	5	0.5
5	320	140+	S	BL/LE	15	RP	5	0.5
6	327	10	M	PO	7	E	2	1.5
6	327	40	M	PO/LE	10	E	2	1.4
6	327	60	W	G				1.0
6	327	78	W	LE	15	RP	4	0.6
6	327	90	W	G				1.0
6	327	140+	W	LE	25	RP	5	0.3
7	328	8	M	PO	5	E	2	1.7
7	328	20	M	PO	8	E	2	1.4
7	328	40	M	PO	8	E	2	1.3
7	328	62	90% Gravel					
7	328	90	M	LE	12	RP	5	0.5
7	328	120	M	LE	12	RP	5	0.5
8	321	12	M	BL	25	E	5	0.4
8	321	25	M	BL/PO	10	E	3	1.1
8	321	48	M	PO	10	E	3	1.2
8	321	52						
8	321	80	M	BL/LE	10	RP	3	1.1
8	321	140+	S	LE	8	RP/SP	3	1.1
9	324	12	W	PO	10	E	3	1.1
9	324	35	M	PO/LE	10	RP	3	1.2
9	324	80	M	BL	15	RP	4	1.0
9	324	100	M	LE	20	RP	5	0.4
10	323	13	W	BL	30	E	4	0.8
10	323	55	W	BL/LE	20	E	5	0.3
10	323	95	W	G				0.5
10	323	140	M	BL/LE	10	RP	3	1.1
11	322	10	M	BL/LE	10	E	4	0.9
11	322	30	M	PO	12	E	3	1.2
11	322	65	S	CO/BL	20	RP/SP	5	0.7
11	322	90	M	LE	15	RP	4	0.8
11	322	140	M	LE	8	RP	3	0.9
12	87	15	M	SB	10	RP	2	1.7
12	87	30	W	SB	10	RP	2	1.5
12	87	50	M	PO	50	SP	4	0.8
12	87	90	M	PO	100	SP	4	0.5
13	86	15	S	SB	5	RP	2	1.8
13	86	30	S	SB	10	RP	2	1.7
13	86	50	M	SB	10	RP	2	1.6
13	86	100	M	PO	20	SP	3	1.4
13	86	140+						1.0
14	189	15	S	SB	5	RP	2	1.9
14	189	30	W	SB	5	E	2	1.8

Map ID	Field Site ID	Lower Depth	Grade	Type	Size	Fabric	Consistence	SOILpak score
14	189	50	M	SB	10	RP	3	1.5
14	189	80+	V			E	4	0.8
15	84	15	S	SB	5	RP	2	1.8
15	84	40	M	SB	10	RP	2	1.7
15	84	60	M	PO	20	SP	3	1.5
15	84	100						1.3
15	84	140+						1.5
16	83	15	S	SB	5	RP	2	1.8
16	83	40	M	SB	10	RP	2	1.7
16	83	60						1.6
16	83	80						1.1
16	83	140+	M	PO	10	SP	3	0.8
17	82	15	S	SB	5	RP	2	1.7
17	82	40	W	SB	10	E	2	1.6
17	82	60	V			E	3	0.9
17	82	80+	V			E	3	0.5
18	188	15	M	SB	10	RP	2	1.8
18	188	30	W	SB	10	E	2	1.5
18	188	60						1.3
18	188	80+	V			E	2	0.8
19	181	15	M	SB	10	RP	2	1.8
19	181	30	W	SB	10	E	3	1.5
19	181	60						1.0
19	181	70+	M	PR	50			
20	85	15	S	SB	5	RP	2	1.8
20	85	30	M	SB	5	RP	2	1.6
20	85	60						1.5
20	85	80						1.1
20	85	140+	PR	PR	50	SP	4	1.5
21	81	15	M	SB	5	RP	2	1.8
21	81	30						1.0
21	81	60						1.0
21	81	90+	V			E	4	0.5
22	80	15	S	G	5	RP	2	1.8
22	80	30	M	SB	3	RP	2	1.7
22	80	60						1.5
22	80	90+	V			E	4	0.9
23	88	15	S	SB	10	RP	2	1.8
23	88	30	M	SB	10	RP	2	1.7
23	88	50	M	PR/LE	50	RP	4	0.8
23	88	90+	V			E	4	0.5
24	184	15	M		10	RP	2	1.8
24	184	30	M	SB	20	RP	2	1.8
24	184	60						1.6
24	184	80	V			E	3	0.9
25	187	15	S	SB	10	RP	2	1.9
25	187	30	M	SB	10	RP	2	1.8
25	187	60						1.5
25	187	100+						1.5
26	182	15	M	SB	10	RP	2	1.8
26	182	30	M	SB	10	RP	2	1.8
26	182	60						1.3
26	182	100						1.3
27	180	15	M	SB	10	RP	2	1.8
27	180	30	W	SB	10	E	3	1.5
27	180	60	W	SB	10	E	3	1.2
27	180	100	V			E	4	0.5
28	75	15	S	SB	5	RP	2	1.9
28	75	30	W	SB	20	E	2	1.8
28	75	40	W	SB	20	E	2	1.8
28	75	60						1.6
28	75	100+	M	PR	30	S	4	0.5
29	79	15	S	PO	20	RP	2	1.8

Map ID	Field Site ID	Lower Depth	Grade	Type	Size	Fabric	Consistence	SOILpak score
29	79	30	S	LE	50	SP	4	1.1
29	79	60	S	LE	50	SP	4	1.0
29	79	100	M	LE	50	SP	4	0.8
29	79	140+	M	LE	100	SP	3	1.5
30	183	15	M	SB	10	RP	2	1.8
30	183	40						1.5
30	183	60	M	PR	50	SP	3	1.0
30	183	100	V			E	3	0.8
30	183	140+	V			E	3	0.5
31	175	5	S	SB	3	E	1	1.8
31	175	15	M	SB	3	E	1	1.7
31	175	35	S	SB	3	RP	1	1.8
31	175	110	M	PO/LE	10	RP	3	1.3
32	74	15	S	SB	5	RP	2	1.8
32	74	30	M	SB	10	RP	2	1.6
32	74	60						1.6
32	74	100						1.2
32	74	140+	V			E	3	0.9
33	78	15	S	PO	20	RP	2	1.8
33	78	30	S	LE	30	SP	3	1.5
33	78	60	M	LE	30	S	3	1.2
33	78	100	S	PO	50	S	3	1.0
33	78	140+	S	PO	50	S	3	1.1
34	178	12	S	SB	3	E	1	1.8
34	178	40	M	SB	3	E	1	1.7
34	178	60	M	PO	7	RP	2	1.5
34	178	100	M	LE/PO	10	RP	3	1.2
35	73	15	S	SB	3	RP	2	1.8
35	73	30	M	SB	5	RP	2	1.6
35	73	60						1.3
35	73	100	V			E	4	0.9
35	73	140+	V			E	4	0.8
36	72	15	S	SB	5	RP	2	1.8
36	72	50	M	SB	10	RP	2	1.6
36	72	60						1.4
36	72	80						1.2
36	72	140+	V			E	4	0.8
37	329	12	M	BL	15	RP	5	0.8
37	329	40	S	BL/LE	10	RP/SP	3	1.0
37	329	95	M	LE	15	LE	3	0.7
37	329	140+	M	LE	15	LE	2	0.9
38	26	12	S	BL	8	E	3	1.2
38	26	30	M	LE	18	RP	3	0.5
38	26	60	S	PO/BL	10	RP/SP	2	1.2
38	26	140+	M	LE/PO	10	RP	1	1.3
39	28	15	M	SV	2	E	1	1.8
39	28	30	M	SV	2	E	1	1.8
39	28	60	M	PO	5	RP	1	1.7
40	186	15	M	SB	5	RP	1	1.8
40	186	30	M	SB	10	RP	2	1.7
40	186	60						1.3
40	186	80+						1.0
41	185	15	M	SB	10	RP	2	1.8
41	185	30	W	SB	10	E	2	1.6
41	185	50						1.5
41	185	80+	V			E	3	0.8
42	174	12	S	SB	3	E	1	1.8
42	174	25	M	PO	5	E	1	1.7
42	174	45	M	PO/LE	15	RP	3	1.1
42	174	60	95% Gravel					
43	177	8	S	SB	3	E	1	1.8
43	177	15	M	SB	3	E	1	1.7
43	177	30	M	PO	5	E	1	1.6

Map ID	Field Site ID	Lower Depth	Grade	Type	Size	Fabric	Consistence	SOILpak score
43	177	55	W	PO	7	E	2	1.5
43	177	90	M	LE/PO	10	RP	3	1.1
43	177	100	80% Gravel					
44	71	10	S	SB	5	RP	2	1.8
44	71	30	M	SB	10	RP	2	1.7
44	71	60						1.5
44	71	90+						1.1
45	77	15	S	PO	10	RP	2	1.8
45	77	30	S	LE/PO	20	SP	2	1.7
45	77	60	S	LE	30	SP	4	1.5
45	77	100	M	LE	30	SP	3	1.5
45	77	120+	M	LE	30	SP	2	1.5
46	25	10	S	PO/BL	10	RP	5	1.3
46	25	50	S	PO/LE	12	RP/SP	3	1.2
46	25	85	M	PO/LE	12	RP	2	1.4
46	25	140+	M	PO/LE	10	RP	2	1.6
47	24	15	S	PO	7	RP	3	1.3
47	24	55	S	PO	7	RP	1	1.7
47	24	95	M	PO/LE	7	RP/SP	2	1.4
48	27	12	S	BL	18	RP	5	0.7
48	27	45	S	PO/BL	7	RP/SP	2	1.3
48	27	90	M	PO/LE	7	RP/SP	2	1.2
48	27	140+	M	PO/LE	7	RP	2	1.2
49	29	10	M	BL	25	RP	4	0.7
49	29	45	M	LE	10	RP	2	1.1
49	29	95	M	LE	15	RP	3	0.5
49	29	130	M	LE	12	RP	2	1.1
50	97	15	M	SB	10	RP	1	1.8
50	97	30	W	SB	10	E	2	1.7
50	97	50						1.5
50	97	80+						1.3
51	96	15	M	SB	10	RP	2	1.8
51	96	30	W	SB	10	E	2	1.7
51	96	40						1.5
51	96	60	S	PR/PO	50	S	4	1.0
51	96	80+	V			E	4	0.5
52	172	10	M	SB	3	E	1	1.7
52	172	35	M	PO	5	RP	1	1.6
52	172	70	M	PO	7	RP	2	1.6
52	172	100	M	PO/BL	8	RP	1	1.4
52	172	140+						
53	89	15	S	SB	5	RP	2	1.8
53	89	50						1.5
53	89	70	M	PR	100	SP	3	0.8
53	89	140+	V			E	3	0.5
54	176	5	S	SB	3	E	1	1.7
54	176	20	M	SB	3	E	1	1.7
54	176	40	M	PO	7	RP	2	1.6
54	176	60	M	PO	8	RP	2	1.5
54	176	90	W	PO	5	RP	2	1.4
55	70	15	S	SB	3	RP	2	1.8
55	70	30	W	SB	5	E	2	1.6
55	70	50	W	SB	5	E	2	1.3
55	70	80	S	PR	50	SP	5	0.5
55	70	140+	W	PR	100	E	3	0.8
56	76	15	M	SB	10	RP	2	1.8
56	76	30	M	SB	20	RP/LE	2	1.6
56	76	60						1.5
56	76	100	M	LE	30	S	3	1.5
56	76	140+	M	LE	150	S	3	1.5
57	330	15	M	PO	12	RP	5	0.8
57	330	45	M	PO	8	RP/SP	4	1.2
57	330	140+	M	BL/LE	15	RP	4	1.0

Map ID	Field Site ID	Lower Depth	Grade	Type	Size	Fabric	Consistence	SOILpak score
58	331	15	W	BL	30	RP	5	0.3
58	331	35	M	PO/LE	15	RP	5	0.8
58	331	60	S	LE	10	RP/SP	4	0.9
58	331	140+	M	BL/LE	8	RP	3	1.3
59	23	10	S	SB	4	RP	2	1.8
59	23	60	S	SB/PO	7	RP/SP	2	1.6
59	23	115	M	LE/PO	8	RP/SP	2	1.6
59	23	140+	Too Wet					
60	22	15	S	SB	3	RP	1	1.9
60	22	70	S	PO	5	SP	1	1.8
60	22	140+	M	PO/LE	10	RP/SP	2	1.5
61	30	20	M	BL	15	RP	4	0.8
61	30	65	M	PO	7	RP/SP	2	1.4
61	30	85	M	PO/LE	10	RP/SP	2	1.4
61	30	140+	M	PO/LE	7	RP	1	1.6
62	261	15	W	SB	5	E	4	1.5
62	261	20						1.3
62	261	30	M	PR	30	RP	4	1.3
62	261	60	M	LE	20	SP	3	1.5
62	261	120	M	LE	20	SP	4	1.2
62	261	140+	V			E	3	0.8
63	173	22	M	PO	5	E	1	1.7
63	173	32	M	BL/PO	15	E	2	1.3
63	173	47	W	BL/LE	12	E	1	1.0
63	173	62	W	LE	20	RP	3	0.4
63	173	130+	M	LE	12	RP	3	0.3
64	95	20	M	SB	10	RP	2	1.8
64	95	40	W	SB	10	E	2	1.7
64	95	50	M	PR	100	S	3	1.0
64	95	100	V			E	4	0.5
64	95	130+	V			E	4	0.5
65	90	10	S	SB	10	RP	2	1.8
65	90	30	W	SB	20	E	1	1.6
65	90	35						1.5
65	90	60	S	PR	50	SP	4	0.8
65	90	80	M	PR	100	SP	4	0.5
65	90	100+	V			E	4	0.5
66	179	10	M	SB	5	RP	1	1.6
66	179	30						1.5
66	179	60						1.5
66	179	80						1.3
67	69	10	S	G	2	RP	2	1.8
67	69	30	M	SB	5	RP	2	1.8
67	69	60	W	SB	5	E	2	1.6
67	69	80						1.2
67	69	140+						1.0
68	309	11	M	PO	8	E	3	1.7
68	309	23	M	LE/BL	15	RP	5	0.3
68	309	65	M	LE/BL	10	RP	5	0.4
68	309	85	W	LE	10	RP	5	0.1
68	309	140+	M	LE	12	SP/RP	4	0.7
69	308	11	M	PO	8	E	1	1.6
69	308	30	M	LE/BL	15	E	3	1.2
69	308	60	M	LE	10	RP	5	0.5
69	308	80	M	LE/BL	10	RP	5	0.4
69	308	140+	W	LE/BL	15	RP	5	0.3
70	68	10	S	SB	5	RP	2	1.8
70	68	30	S	PO	10	S	2	1.5
70	68	60	M	LE/PO	20	S	4	1.3
70	68	140+	M	PO/LE	20	S	4	1.1
71	310	12	M	BL	15	RP	3	1.0
71	310	50	S	BL	20	RP	4	1.0
71	310	85	M	LE	10	RP	3	1.1

Map ID	Field Site ID	Lower Depth	Grade	Type	Size	Fabric	Consistence	SOILpak score
71	310	140+	M	LE/PO	8	RP/SP	3	1.2
72	332	7	S	PO	7	RP	4	1.5
72	332	28	M	BL/LE	15	RP/SP	5	0.8
72	332	80	S	LE	15	SP	5	1.0
72	332	140+	M	LE	15	RP	4	0.8
73	32	15	M	PO	8	E	2	1.7
73	32	40	M	PO	6	RP	2	1.8
73	32	70	M	PO/BL	10	RP	2	1.4
74	31	9	M	PO	5	E	1	1.7
74	31	30	M	PO/LE	8	E	2	1.3
74	31	60	M	LE/PO	8	RP	2	1.2
74	31	90	M	BL/LE	10	RP	2	1.1
74	31	140+	W	LE	15	RP	3	0.7
75	260	15	W	SB	20	E	3	1.6
75	260	30	M	AB	10	RP	3	1.4
75	260	60						1.4
75	260	80	M	AB	10	RP	3	1.6
75	260	100	S	PR	50	RP	5	0.5
75	260	140+	S	LE	20	SP	2	1.5
76	98	15	S	SB	10	RP	2	1.8
76	98	30	M	PO/LE	20	SP	3	1.6
76	98	50	S	LE/PR/PO	50	SP	3	1.5
76	98	60+	V			E	4	0.3
77	94	15	M	SB	10	RP	2	1.6
77	94	30	W	SB	20	RP	2	1.5
77	94	35						1.3
77	94	60	S	PR	100	SP	4	0.5
77	94	100						0.8
77	94	140+	S	PR	100	SP	3	1.0
78	93	15	M	SB	10	RP	2	1.7
78	93	30	W	SB	10	E	1	1.6
78	93	35						1.4
78	93	60+	S	PR	100	SP	4	0.5
79	91	15	S	SB	10	RP	2	1.8
79	91	30	W	SB	10	E	1	1.7
79	91	50	W	SB	20	E	2	1.7
79	91	60	W	SB	20	E	2	1.7
79	91	140+	M	PR	50	SP	4	0.5
80	171	15	M	SB	3	E	1	1.7
80	171	40	M	SB	5	RP	2	1.6
80	171	90	M	LE/BL	8	RP	2	1.6
81	66	10	M	GR	5	RP	2	1.8
81	66	40	W	SB	10	E	2	1.8
81	66	70	W	LE	10	E	3	1.0
81	66	100	M			E	4	0.8
81	66	140+	M			E	4	0.5
82	67	10	S	SB	2	RP	2	1.8
82	67	40	M	SB	3	RP	2	1.8
82	67	60	M	SB	50	RP	3	1.3
82	67	100+	W	SB	20	RP	4	1.0
83	314	15	W	BL	25	RP	3	0.8
83	314	90	M	LE	8	RP/SP	2	1.1
83	314	140+	M	LE	15	RP/SP	4	0.9
84	315	10	W	BL	30	RP	3	0.5
84	315	50	M	PO/LE	10	RP	3	1.1
84	315	80	M	LE	10	RP	3	0.8
84	315	140+	M	LE	10	RP	3	1.1
85	46	8	S	SB/PO	8	RP	3	1.5
85	46	20	S	PO	5	RP	2	1.8
85	46	40	M	PO	8	RP	1	1.6
85	46	95	M	PO/LE	10	RP/SP	1	1.7
85	46	140+	S	PO/PL	8	RP/SP	1	1.5
86	102	15	S	SB	5	RP	2	1.8

Map ID	Field Site ID	Lower Depth	Grade	Type	Size	Fabric	Consistence	SOILpak score
86	102	40	M	PO/PR	20	SS/RP	3	1.5
86	102	60	V			E	4	0.5
86	102	100+	V			E	4	0.5
87	92	15	S	SB	10	RP	2	1.8
87	92	30	M	SB	10	RP	2	1.6
87	92	50						1.6
87	92	60						1.3
87	92	100						1.0
87	92	140+	V			E	4	0.5
88	65	10	M	SB	5	RP	2	1.8
88	65	40	W	SB	5	E	2	1.8
88	65	60	W	SB	5	E	3	1.6
88	65	140+	M	LE	5	RP	3	1.2
89	64	15	M	SB	3	E	2	1.8
89	64	30	M	PO	6	E	2	1.6
89	64	60	S	LE	20	RP	4	0.4
90	63	15	M	SB	5	RP	2	1.8
90	63	40	S	PR/AB	30	RP	3	0.8
90	63	70	M	PR/AB	40	RP	4	0.5
90	63	100+	V				3	0.7
91	313	15	M	PO	12	RP	3	1.2
91	313	30	S	PO/LE	10	RP/SP	2	1.3
91	313	60	M	PO/LE	10	RP/SP	2	1.2
91	313	140+	M	LE	15	RP	3	1.1
92	36	15	S	PO/SB	7	RP	2	1.8
92	36	45	S	SB	5	RP/SP	1	1.9
92	36	140+	S	PO	8	RP/SP	1	1.8
93	33	14	M	S/B	3	E	1	1.8
93	33	30	M	S/B	3	E	1	1.8
93	33	60	M	S/B	3	E	1	1.8
94	101	20	M	RP	5	RP	2	1.8
94	101	60	W	SB	10	E	2	1.6
94	101	80	M	PR	100	SP	3	1.3
94	101	100+	V			E	4	0.5
95	103	15	M	SB	5	RP	1	1.8
95	103	50	W	PO	50	E	2	1.5
95	103	80	W	PO	100	E	3	1.5
95	103	100	M	PR	100	E	4	0.8
95	103	140+	S	PR	100	SP	3	0.8
96	104	10	W	SB	10	E	1	1.8
96	104	30						1.6
96	104	40						1.3
96	104	60	M	PR	50	SP	3	0.8
96	104	140+	M	PR	100	SP	4	0.5
97	170	12	S	SB	3	E	1	1.8
97	170	27	M	SB	3	E	1	1.7
97	170	42	M	PO	5	RP	1	1.6
98	273	15	W	SB	5	E	2	1.3
98	273	30						1.3
98	273	60						1.4
98	273	100	V			E	3	0.9
98	273	120+	V			E	4	0.5
99	272	15	M	SB	5	RP	2	1.7
99	272	30	W	SB	5	E	2	1.6
99	272	60						1.6
99	272	100						1.5
99	272	120+	V			E	4	0.5
100	271	15	M	SB	5	RP	2	1.8
100	271	30	W	SB	5	E	3	1.7
100	271	60						1.6
100	271	100						1.0
100	271	120+	V			E	4	0.5
101	62	5	M	SB	5	RP	2	1.8

Map ID	Field Site ID	Lower Depth	Grade	Type	Size	Fabric	Consistence	SOILpak score
101	62	10	M	SB	3	RP	2	1.8
101	62	40	W	SB	5	RP	2	1.7
101	62	80	V			E	4	0.8
102	270	15	W	SB	5	E	2	1.8
102	270	30	W	SB	5	E	2	1.8
102	270	60						1.6
102	270	100						1.1
102	270	110	V			E	4	0.5
103	277	15	M	AB	30	RP	4	1.8
103	277	40	M	LE	20	SP	4	1.7
103	277	60						1.1
103	277	100						1.0
103	277	140+	M	AB	10	RP	3	0.8
104	45	10	S	PO	8	RP	3	1.5
104	45	70	S	PO/LE	10	RP/SP	2	1.3
104	45	140+	M	PO/PL	5	RP/Sp	1	1.6
105	37	12	S	SB	2	RP	2	1.6
105	37	40	S	SB/PO	1	RP/SP	1	1.8
105	37	95	M	LE/PO	2	RP	2	1.3
105	37	140+	S	LE/PO	1	RP/SP	1	1.7
106	35	10	S	SB	5	E	2	1.7
106	35	22	S	SB/PO	5	E	1	1.8
106	35	55	M	PO	10	RP	2	1.4
106	35	90	M	PO/LE	8	RP	2	1.5
106	35	140+	M	PO/LE	7	RP	2	1.5
107	34	15	S	SB	5	E	2	1.8
107	34	55	M	SB	3	E	2	1.6
107	34	85	M	PO	8	RP	3	1.2
108	100	15	S	SB	5	RP	2	1.8
108	100	30	M	SB	10	RP	2	1.8
108	100	60						1.5
109	99	15	M	SB	5	RP	2	1.8
109	99	30	M	SB	10	RP	2	1.6
109	99	60	V			E	2	1.5
109	99	100	Pan	FE/MN		E	6	0.0
109	99	120+	V			E	4	0.3
110	105	20	W	SB	20	E	1	1.8
110	105	50						1.7
110	105	70	W	PR	50	SP	3	1.1
111	274	15	W	SB	5	E	2	1.8
111	274	30						1.7
111	274	60						1.6
111	274	80						1.5
112	275	15	M	SB	5	RP	2	1.8
112	275	30						1.6
112	275	60						1.5
112	275	100						1.3
113	276	15	W	SB	5	E	2	1.6
113	276	30						1.6
113	276	60						1.6
113	276	80	V			E	3	0.8
113	276	100	V			E	3	0.8
114	312	15	W	BL	40	RP	4	0.3
114	312	50	M	LE/BL	15	RP	5	0.2
114	312	70	M	LE/BL	10	RP	3	1.0
114	312	140+	S/M	LE/PO	8	RP	3	1.2
115	44	10	S	SB	4	RP	2	1.9
115	44	50	S	PO/BL	15	RP/SP	4	1.2
115	44	100	S	PO/LE	10	RP	2	1.4
115	44	125+						
116	38	10	M	BL/PO	12	E	3	1.2
116	38	18	M	PO/LE	8	E	2	1.4
116	38	65	S	LE	10	RP/SP	2	1.1

Map ID	Field Site ID	Lower Depth	Grade	Type	Size	Fabric	Consistence	SOILpak score
116	38	140+	M	LE	12	RP	2	1.1
117	39	18	M	SV	3	E	1	1.8
117	39	60	W	G				1.5
117	39	95	W	LE/PO	10	RP	15	0.6
117	39	130+	W	LE/BL	10	RP	4	0.8
118	163	13	S	SB	3	E	1	1.8
118	163	30	M	PO	7	RP	2	1.5
118	163	60	M	PO/LE	8	RP	3	1.3
118	163	80	M	LE	10	RP	3	1.0
119	165	15	M	SB	5	E	1	1.7
119	165	45	M	PO	5	E	2	1.7
119	165	60	M	PO	5	E	1	1.4
119	165	80	M	PO	7	RP	2	1.6
120	162	5	S	SB	3	E	1	1.8
120	162	18	S	PO	7	E	2	1.6
120	162	60	M	PO	8	RP	2	1.5
120	162	110	M	BL/LE	10	RP	2	1.2
121	169	12	M	SB	3	E	1	1.7
121	169	35	M	SB	3	E	1	1.7
121	169	50	M	SB	3	RP	1	1.7
121	169	70	M	PO	5	RP	2	1.6
121	169	105	M	PO	8	RP	2	1.5
122	298	10	M	SB	10	RP	2	1.7
122	298	30	W	SB	10	E	2	1.7
122	298	60						1.6
122	298	100						1.0
122	298	140+	V			E	3	0.5
123	157	18	M	PO	5	E	1	1.6
123	157	35	W	PO	5	E	1	1.5
123	157	45	W	G		E	1	1.5
123	157	75	V					0.2
123	157	140+	V					0.4
124	297	15	W	SB	10	RP	2	1.6
124	297	40						1.3
124	297	60	M	PR	50	SP	4	0.5
124	297	100	V			E	3	0.5
124	297	140+	V			E	4	0.5
125	40	8	S	SB	5	E	2	1.7
125	40	25	S	SB/PO	7	RP	2	1.5
125	40	70	S	PO/LE	7	RP	2	1.5
125	40	100	M	LE	8	RP	2	1.5
126	41	12	G					1.7
126	41	65	G					1.5
127	164	10	S	SB	5	E	1	1.7
127	164	20	M	SB	5	E	1	1.7
127	164	45	M	PO	5	RP	1	1.6
127	164	75	M	PO	7	RP	2	1.5
128	168	17	S	SB	5	E	1	1.8
128	168	35	S	SB	5	RP	2	1.6
128	168	70	M	PO	8	RP	2	1.5
128	168	120	M	PO	7	RP	3	1.3
129	58	12	G					1.8
129	58	25	Sandstone Slabs					
129	58	50	M	PD	5	RP	2	1.7
130	2	10	W	PO	3	E	1	1.2
130	2	30	M	PO	5	E	1	1.4
130	2	55	M	PO	8	RP	2	1.3
130	2	100	W	LE	10	RP	2	0.9
131	158	10	M	PO	7	E	1	1.7
131	158	35	M	PO	7	E	1	1.7
131	158	70	W	LE	10	E	2	1.1
132	159	12	M	PO	5	E	1	1.7
132	159	30	M	PO	8	E	2	1.5

Map ID	Field Site ID	Lower Depth	Grade	Type	Size	Fabric	Consistence	SOILpak score
132	159	50	M	BL/PO	10	RP	2	1.4
132	159	75	M	BL/LE	10	RP	2	1.2
133	161	15	M	SB	3	E	1	1.8
133	161	40	M	PO	5	E	1	1.6
133	161	60	M	PO	7	RP	2	1.6
133	161	90	M	BL	12	RP	3	1.3
133	161	140+	W	LE/PL	10	RP	3	0.9
134	160	15	M	SB	3	E	1	1.8
134	160	30	M	PO	7	RP	1	1.7
134	160	50	M	PO	5	RP	1	1.7
134	160	90	SM	BL	10	RP	2	1.1
135	262	15	M	GR	5	RP	2	1.6
135	262	30						1.7
135	262	60						1.5
135	262	100						1.0
135	262	140+	V			E	4	0.5
136	263	15	M	SB	5	RP	2	1.8
136	263	30	M	LE	10	SP	3	1.6
136	263	60	M	LE	10	SP	3	1.6
136	263	100	W	LE	30	SP	4	1.0
136	263	140+	M	LE	20	SP	3	1.5
137	267	15	S	SB	5	RP	3	1.8
137	267	30	M	LE	10	SP	3	1.8
137	267	60	M	LE	20	SP	3	1.7
137	267	100	M	LE	30	SP	4	1.0
137	267	140+	M	AB	20	RP	4	0.5
138	43	8	S	SB	5	E	1	1.8
138	43	17	S	PO/BL	15	RP	3	1.0
138	43	50	S	PO/LE	10	RP/SP	3	1.3
138	43	70	M	PO/LE	12	RP/SP	2	1.4
138	43	140+	M	PO/BL	8	RP	1	1.7
139	42	15	M	SB	5	E	1	1.7
139	42	38	W	PO	7	E	2	1.4
139	42	100	M	LE	10	RP	4	0.7
139	42	135+	M	LE	12	RP	3	0.7
140	166	15	S	SB	3	E	1	1.8
140	166	50	M	PO	5	E	1	1.7
140	166	75	M	PO/LE	10	RP	3	1.2
140	166	90	M	LE/PO	10	RP	2	1.3
141	57	13	M	SB	5	E	1	1.8
141	57	30	M	LE	15	E	2	0.9
141	57	50	S	LE	20	RP	5	0.2
141	57	140+	S	LE	10	RP	3	0.6
142	1	15	W	BL	12	RP	2	1.0
142	1	45	M	PO/LE	15	RP	3	0.8
142	1	80	M	PO	8	RP	2	1.5
142	1	140+	M	SB	5	RP	1	1.8
143	264	15	M	SB	5	RP	3	1.8
143	264	30	W	LE	20	SP	3	1.6
143	264	60	W	E	30	SP	3	1.3
143	264	80	V			E	3	0.5
143	264	110	V			E	4	0.5
143	264	140+	V	AB	20	RP	4	0.5
144	265	15	M	GR	5	RP	3	1.8
144	265	30	S	PD	10	RP	3	1.6
144	265	60	M	LE	20	SP	3	1.6
144	265	100	M	LE	20	SP	3	1.4
144	265	140+	M	PR	30	RP	3	1.0
145	266	15	S	SB	5	RP	3	1.8
145	266	30	M	LE	10	SP	3	1.7
145	266	60	M	LE	20	SP	3	1.7
145	266	100	M	AB	20	RP	3	1.0
145	266	140+	M	LE	20	SP	3	1.0

Map ID	Field Site ID	Lower Depth	Grade	Type	Size	Fabric	Consistence	SOILpak score
146	317	12	M	BL/PO	10	RP	5	1.1
146	317	30	M	BL	25	RP	5	0.7
146	317	80	M	BL/LE	20	RP/SP	4	0.8
146	317	140+	M	BL/LE	15	RP/SP	3	1.0
147	47	20	M	PO/SB	5	E	2	1.7
147	47	60	S	PO/SB	7	RP	2	1.6
147	47	90	M	LE/PO	15	RP	3	1.3
147	47	140	M	LE/PO	10	RP	2	1.3
148	48	17	S	SB	1	RP	1	1.8
148	48	50	M	LE/PO	1	E	1	1.7
148	48	65	M	LE/PO	1	E	1	1.5
148	48	85	M	LE/PO	2	RP	2	1.5
148	48	102	M	LE	2	RP	2	1.3
148	48	130+	S	PO	1	RP	1	1.8
149	19	10	S	SB	5	E	1	1.8
149	19	45	M	PO	5	E	1	1.7
149	19	60	M	PO/LE	8	RP	2	1.3
149	19	90	S	PO/LE	10	RP/SP	2	1.1
150	20	10	S	SB	3	E	1	1.8
150	20	25	M	PO	7	E	1	1.7
150	20	55	M	PO	5	RP	1	1.6
150	20	70	M	PO	7	RP	1	1.6
150	20	95	W	LE	15	RP	2	0.8
151	21	15	S	SB	5	E	1	1.8
151	21	55	M	PO	12	RP	2	1.2
151	21	65	M	PO	6	RP	2	1.3
152	56	10	G					1.5
152	56	25	G					1.5
152	56	55	G					1.5
153	55	10	M	G	5	E	1	1.8
153	55	30	G				2	1.5
153	55	50	G				2	1.5
153	55	72	G				3	1.0
153	55	100	G				4	1.0
154	3	17	W	PO	7	E	2	1.7
154	3	50	W	PO	7	E	2	1.5
154	3	65	M	BL	10	RP	2	1.3
154	3	105	M	BL/LE	12	RP	2	1.3
155	268	15	S	SB	5	RP	3	1.8
155	268	30	M	LE	10	SP	3	1.8
155	268	60	S	LE	10	SP	4	1.6
155	268	100	M	LE	10	SP	4	1.6
155	268	140+	M	LE/AB	20	SP/RP	4	1.1
156	269	15	S	SB	5	RP	3	1.8
156	269	30	S	SB	5	RP	3	1.8
156	269	60						1.5
156	269	100	M	LE/AB	30	SP/RP	4	0.8
156	269	140+	S	LE	10	SP	4	0.8
157	316	15	W	BL	30	RP	5	0.4
157	316	60	M	BL	15	RP	3	0.9
157	316	90	M	BL	25	RP	5	0.7
157	316	140+	M	LE	10	RP	4	0.8
158	50	5	S	SB	3	RP	3	1.8
158	50	10	S	SB/PO	7	RP	2	1.9
158	50	50	S	LE	15	RP	2	0.8
158	50	80	S	LE/PO	10	RP/SP	1	1.3
158	50	140+	M	LE/PO	15	RP/SP	2	1.0
159	54	10	M	PO/BL	7	RP	2	1.6
159	54	25	S	LE	12	RP/SP	2	0.5
159	54	70	M	LE/PO	10	RP/SP	1	1.7
159	54	140+	S	SB	6	RP/SP	2	1.8
160	53	12	M	SP/PO	8	RP	1	1.6
160	53	40	S	LE	10	RP	1	1.5

Map ID	Field Site ID	Lower Depth	Grade	Type	Size	Fabric	Consistence	SOILpak score
160	53	75	M	LE	12	RP	1	1.3
160	53	140+	S	LE/PO	8	RP/SP	1	1.2
161	49	20	M	PO/SB	5	E	2	1.5
161	49	60	M	LE/PO	8	RP	4	1.1
161	49	125+	S	PO	5	RP	4	1.3
162	18	10	S	SB	3	E	1	1.9
162	18	40	M	LE	7	RP	2	1.1
162	18	65	M	LE	10	RP	2	1.3
162	18	140+	M	LE	10	RP	2	1.2
163	9	12	M	PO/SB	5	E	1	1.8
163	9	65	M	BL/PO	10	E	1	1.6
163	9	90	M	LE	10	RP	1	1.3
164	8	12	W	PO	8	E	1	1.6
164	8	32	M	LE	5	E	1	1.4
164	8	100	M	PO/BL	8	RP	1	1.7
165	5	12	M	PO	5	E	2	1.6
165	5	50	M	PO	5	E	1	1.7
165	5	80	M	PO	5	RP	2	1.5
165	5	100	S	BL	5	RP	2	1.5
166	167	5	M	SB	3	E	1	1.7
166	167	15	M	SB	3	E	1	1.7
166	167	40	M	PO	10	E	1	1.6
166	167	65	M	LE	15	E	3	0.9
167	4	10	W	PO	7	E	2	1.6
167	4	30	M	PO	7	E	2	1.5
167	4	60	M	BL	5	RP	2	1.4
168	51	2	S	SB/PO	3	RP	3	1.8
168	51	15	S	PO	8	RP	3	1.6
168	51	75	M	PO/LE	10	RP/SP	2	1.6
168	51	140+	M	PO/BL	8	RP/SP	1	1.8
169	52	5	S	SB	3	RP	2	1.8
169	52	25	S	SB	20	RP	2	1.7
169	52	60	M	LE	15	RP/SP	2	1.6
169	52	140+	S	LE	20	SP	2	1.5
170	10	10	M	PO	12	RP	3	1.2
170	10	35	M	PL	8	RP	3	0.9
170	10	70	S	CO/BL	12	RP	4	0.7
170	10	140+	S	BI/PO	8	RP	3	1.2
171	11	14	S	PO/SB	5	E	2	1.8
171	11	35	S	PO	5	RP	1	1.8
172	7	12	W	PO	7	E	1	1.3
172	7	60	M	PO	7	RP	1	1.6
172	7	100	M	LE	10	RP	2	1.0
172	7	110	M	BL/LE	10	RP	2	1.2
173	6	10	M	PO	8	E	2	1.6
173	6	60	M	LE	8	E	2	1.1
173	6	95	M	PO	10	RP	2	1.3
173	6	140 +	W	LE	10	RP	2	0.8
174	17	12	M	PO	12	E	3	1.2
174	17	27	M	BL/PO	12	RP	2	1.2
174	17	50	M	BL/PO	10	RP	2	1.4
174	17	105	S	PO	7	RP	2	1.5
175	16	10	S	PO	7	E	2	1.7
175	16	35	M	PO	7	E	2	1.6
175	16	60	M	PO	7	RP	2	1.3
176	12	12	M	PO	8	RP	2	1.4
176	12	40	M	LE	10	RP	2	1.0
176	12	60	M	LE	7	RP	1	1.3
176	12	95	W	LE/PO	5	RP	2	1.2
177	15	15	M	BL	25	RP	2	0.8
177	15	60	M	PL	15	RP	2	0.7
177	15	95	M	LE	8	RP	1	1.3
177	15	130+	M	LE	8	RP	2	1.2

Map ID	Field Site ID	Lower Depth	Grade	Type	Size	Fabric	Consistence	SOILpak score
178	229	15	M	SB	5	RP	1	1.9
178	229	30						1.6
178	229	60						1.6
178	229	100						1.6
178	229	140+	M	PR	30	E	2	1.6
179	13	12	M	PO	8	E	2	1.6
179	13	30	M	PL	15	E	2	1.0
179	13	60	M	PO	8	RP	2	1.5
179	13	105	M	PO/BL	10	RP	3	1.3
179	13	140+	M	PO/LE	8	RP	3	1.3
180	228	15	M	SB	10	RP	1	1.8
180	228	40	W	LE/PR	30	SP	3	1.3
180	228	70	W	LE	10	SP	3	1.5
181	14	18	M	BL	10	E	2	1.3
181	14	35	M	PO	8	E	1	1.6
181	14	50	M	PO	5	E	1	1.7
181	14	80	S	PO/BL	10	RP	3	1.2
182	254	15	S	SB	5	RP	4	1.8
182	254	30	S	LE	10	SP	3	1.8
182	254	60	M	LE	20	SP	3	1.7
182	254	100	S	LE	40	SP	3	1.5
182	254	140+	M	LE	40	SP	3	1.4
183	255	15	S	SB	5	RP	3	1.8
183	255	30	M	LE	20	SP	3	1.6
183	255	60	M	LE	20	SP	2	1.5
183	255	100	S	LE	10	SP	2	1.6
183	255	140+	M	LE	30	SP	3	1.6
184	256	15	S	GR	5	RP	3	1.8
184	256	30	M	LE	10	SP	3	1.6
184	256	50	M	LE	10	SP	3	1.6
184	256	80						1.4
184	256	100	S	LE	20	SP	3	1.4
184	256	140+						1.1
185	216	15	S	SB	5	RP	2	1.8
185	216	30	M	PO	20	RP	3	1.5
185	216	50	M	PO	20	RP	3	1.5
185	216	70						1.3
185	216	120+						1.3
186	222	15	M	SB	5	RP	2	1.8
186	222	30	M	SB	20	E	2	1.7
186	222	60	V			E	2	1.5
187	223	15	M	SB	10	RP	2	1.8
187	223	30	W	SB	20	RP	2	1.8
187	223	60	W	SB	20	E	2	1.7
187	223	100	M	PR	50	SP	2	1.5
187	223	140+	S	AB	20	SP	2	1.5
188	224	15	W	SB	10	E	2	1.7
188	224	30						1.3
188	224	40						1.3
188	224	60	M	PR	50	RP	3	1.1
188	224	100+	S	AB	10	SP	3	1.0
189	225	10	M	SB	20	RP	2	1.8
189	225	30	M	PR	50	SP	3	1.6
189	225	60	M	LE	20	SP	4	1.2
189	225	80	M	PR	30	SP	4	0.9
189	225	100	M	AB	20	SP	4	0.5
190	205	15	M	SB	10	RP	2	1.7
190	205	30	W	SB	20	E	2	1.5
190	205	60						1.5
190	205	100						1.3
190	205	140+	M	PR	50	SP	2	1.6
191	230	15	M	SB	10	RP	2	1.9
191	230	30						1.6

Map ID	Field Site ID	Lower Depth	Grade	Type	Size	Fabric	Consistence	SOILpak score
191	230	60						1.6
191	230	100	M	PR	10	SP	3	1.2
191	230	140+	V			E	3	0.8
192	227	15	M	SB	20	RP	1	1.9
192	227	30	W	SB	10	E	2	1.7
192	227	60	M	PR	20	SP	3	1.2
192	227	80	M	PR	40	SP	3	0.9
192	227	140+	V			E	3	0.5
193	253	15	S	SB	10	RP	4	1.4
193	253	30	M	LE	10	SP	3	1.6
193	253	60	S	LE	10	SP	2	1.7
193	253	100	W	LE	30	SP	2	1.6
193	253	140+	W	LE	30	SP	2	1.6
194	248	15	S	SB	10	RP	3	1.8
194	248	30	M	LE	10	SP	2	1.7
194	248	60	S	LE	10	SP	2	1.7
194	248	100	M	LE	10	SP	2	1.7
194	248	140+	M	LE	10	SP	2	1.6
195	258	15	S	AB	10	RP	4	1.8
195	258	30	M	LE	20	SP	3	1.7
195	258	60	M	LE	20	SP	3	1.7
195	258	100	M	LE	30	SP	2	1.6
195	258	140+	W	LE	40	SP	3	1.4
196	213	15	S	SB	5	RP	2	1.8
196	213	30	M	LE	10	SP	2	1.8
196	213	60	M	LE	10	SP	2	1.8
196	213	100	M	LE	20	SP	2	1.8
196	213	140	S	LE	20	SP	2	1.8
196	213	200	S	LE	20	SP	2	1.8
196	213	300	W	LE	20	E	2	1.8
197	257	15	S	GR	10	RP	2	1.8
197	257	30	M	LE	10	SP	2	1.6
197	257	60	S	LE	20	SP	2	1.6
197	257	100	M	LE	10	SP	3	1.6
197	257	140+	S	LE	30	SP	2	1.6
198	214	15	S	AB	10	SP	3	1.4
198	214	30	M	LE	10	SP	2	1.5
198	214	60	M	LE	20	SP	2	1.7
198	214	100	M	LE	20	SP	2	1.6
198	214	140+	S	LE	30	SP	2	1.6
199	215	15	M	AB	10	RP	2	1.5
199	215	30	M	LE	10	SP	2	1.7
199	215	60	M	LE	20	SP	2	1.6
199	215	100	M	AB	5	SP	2	1.5
199	215	140+	S	AB	5	SP	2	1.5
200	221	15	M	SB	10	RP	2	1.6
200	221	30						1.6
200	221	60	M	PR	50	RP	3	1.6
200	221	80						1.3
200	221	140+						1.2
201	226	15	M	SB	20	RP	2	1.8
201	226	30	M	PO	50	SP	2	1.6
201	226	60	M	LE	30	SP	2	1.6
201	226	100						1.2
201	226	140+	V			E	4	0.5
202	206	15	M	SB	5	RP	2	1.8
202	206	30	W	LE	10	EP	2	1.7
202	206	60	W	LE	10	SP	2	1.7
202	206	100	M	LE	10	SP	3	1.5
202	206	110+						1.4
203	191	15	S	SB	10	RP	2	1.9
203	191	30	M	SB	20	RP	2	1.8
203	191	60	S	SB	20	RP	2	1.8

Map ID	Field Site ID	Lower Depth	Grade	Type	Size	Fabric	Consistence	SOILpak score
203	191	120+	S	SB	20	RP	2	1.7
204	252	15	S	SB	10	RP	3	1.4
204	252	30	S	LE	10	SP	3	1.4
204	252	60	M	LE	10	SP	2	1.6
204	252	100	M	LE	10	SP	2	1.6
204	252	140+	M	LE	10	SP	2	1.6
205	247	15	S	SB	10	RP	2	1.8
205	247	30	S	LE	10	SP	2	1.7
205	247	60	M	LE	20	SP	2	1.7
205	247	100	M	LE	20	SP	2	1.7
205	247	140+	M	LE	30	SP	2	1.6
206	259	15	S	AB	10	RP	4	1.8
206	259	30	M	LE	10	SP	3	1.7
206	259	60	S	LE	20	SP	2	1.6
206	259	100	M	LE	20	SP	2	1.6
206	259	140+	M	LE	20	SP	2	1.6
207	212	15	S	AB	20	RP	3	1.6
207	212	40	S	AB	10	LE/SP	2	1.6
207	212	60	M	LE	20	SP	3	1.6
207	212	100	W	LE	20	SP	3	1.6
207	212	140+	M	LE	20	SP	3	1.6
208	218	15	M	PO	20	RP	2	1.8
208	218	30	M	LE	2	SP	3	1.7
208	218	60	M	LE	20	SP	3	1.3
208	218	100	M	LE	10	SP	2	1.6
208	218	140+	M	LE	10	SP	2	1.6
209	219	15	M	PO	30	RP	3	1.3
209	219	30	M	PR	20	RP	3	1.3
209	219	50	W	LE	50	SP	3	1.3
209	219	80	M	LE	20	SP	4	0.9
209	219	140+	W	LE	20	SP	3	1.3
210	217	15	S	PO	20	RP	3	1.5
210	217	30	M	LE	30	SP	3	1.4
210	217	60	M	LE	20	SP	4	1.1
210	217	100	S	LE	10	SP	3	1.6
210	217	140+	S	LE	10	SP	3	1.6
211	220	15	M	SB	10	RP	2	1.6
211	220	30						1.6
211	220	60	W	LE	20	E	2	1.6
211	220	100	M	PR	50	SP	4	0.8
211	220	140+	M	PR	50	SP	3	0.8
212	194	15	S	SB	10	RP	2	1.9
212	194	30	M	LE	10	SP	3	1.8
212	194	60	W	LE	10	SP	3	1.5
212	194	100+	M	SB	5	SP	2	1.5
213	190	15	S	SB	10	RP	2	1.9
213	190	30	S	SB	20	SP	2	1.8
213	190	60	S	SB	5	SP	2	1.7
213	190	120+	S	SB	5	RP	2	1.6
214	155	7	M	PO	7	E	1	1.5
214	155	20	M	PO	8	E	1	1.5
215	156	15	M	PO	8	E	2	1.5
215	156	30	M	PO/BL	10	E	2	1.2
215	156	60	M	LE	12	RP	1	1.1
215	156	105	M	LE	7	RP	2	1.2
216	251	15	S	AB	10	RP	4	1.6
216	251	30	S	LE	10	SP	2	1.8
216	251	60	S	LE	10	SP	2	1.8
216	251	100	M	LE	10	SP	2	1.7
216	251	140+						1.5
217	250	15	S	AB	20	RP	4	1.6
217	250	30	S	LE	10	SP	3	1.8
217	250	60	M	LE	20	SP	4	1.5

Map ID	Field Site ID	Lower Depth	Grade	Type	Size	Fabric	Consistence	SOILpak score
217	250	100	M	LE	20	SP	3	1.6
217	250	140+	S	LE	10	SP	2	1.7
218	249	15	M	AB	40	SP	4	0.9
218	249	30	M	LE	10	SP	2	1.7
218	249	60	S	LE	10	SP	2	1.7
218	249	100	M	LE	20	SP	2	1.6
218	249	140+	S	LE	10	SP	2	1.6
219	307	12	S	PO	8	RP	2	1.8
219	307	40	M	PO/LE	10	RP/SP	2	1.3
219	307	60	S	PO/LE	7	RP/SP	2	1.7
219	307	140+	M	BL/LE	10	RP/SP	2	1.3
220	382	5	S	SB	5	RP	2	1.8
220	382	30	S	PO	8	RP	2	1.5
220	382	80	M	PO/BL	25	RP/SP	4	1.0
220	382	140+	M	PO/LE	8	RP	1	1.6
221	311	12	S	PO	5	RP	2	1.8
221	311	55	S	BL/LE	15	RP	5	1.1
221	311	95	M	LE/PO	15	RP	3	1.2
221	311	130+	S	LE	8	SP	2	1.4
222	196	15	S	SB	5	RP	2	1.9
222	196	30	M	LE	20	SP	2	1.8
222	196	60	S	LE	10	SP	3	1.6
222	196	80	S	LE	20	SP	4	1.5
222	196	140+	S	LE	30	SP	4	1.1
223	195	15	S	SB	10	RP	2	1.9
223	195	30	M	LE	10	SP	2	1.8
223	195	60	S	LE	30	SP	3	1.5
223	195	80	S	LE	30	SP	4	1.2
223	195	140+	S	LE	50	SP	4	0.9
224	193	15	S	SB	5	RP	2	1.9
224	193	30	M	LE	10	SP	2	1.7
224	193	60	S	LE	20	SP	4	1.3
224	193	80	W	LE	10	SP	3	1.5
225	192	15	S	SB	5	RP	2	1.9
225	192	30	M	LE	10	SP	3	1.8
225	192	60	S	LE	20	SP	4	1.6
225	192	100	S	LE	20	SP	4	1.5
225	192	140+	M	LE	40	SP	3	1.5
226	154	10	M	PO	7	RP	1	1.8
226	154	30	S	PO	8	RP	2	1.7
226	154	50	M	LE/PO	10	RP	2	1.3
227	114	15	W	SB	10	RP	1	1.8
227	114	30						1.7
227	114	60+	M	PR	50	RP	3	1.5
228	113	15	W	SB	20	E	2	1.6
228	113	30	W	SB	20	E	2	1.6
228	113	60	S	LE	20	SP	3	1.3
228	113	100	S	LE	20	SP	4	0.5
228	113	140+	M	LE	30	SP	4	0.5
229	209	15	S	SB	5	RP	2	1.9
229	209	30	M	SB	5	RP	2	1.7
229	209	60	M	LE	10	SP	3	1.6
229	209	120	M	LE	10	SP	2	1.6
229	209	140						1.6
229	209	300						1.6
229	209	800						1.6
230	211	15	S	SB	5	RP	2	2.0
230	211	30	M	LE	20	SP	3	1.8
230	211	60	S	LE	30	SP	4	1.7
230	211	140	S	LE	20	SP	4	1.7
230	211	150						1.0
231	306	15	S	SB	5	RP	2	1.8
231	306	25	M	PO/LE	8	RP	2	1.6

Map ID	Field Site ID	Lower Depth	Grade	Type	Size	Fabric	Consistence	SOILpak score
231	306	50	M	PO/LE	10	RP	1	1.5
231	306	85	M	PO/LE	8	RP	1	1.7
231	306	140+	S	LE	15	SP/RP	2	1.5
232	381	10	S	SB	5	RP	2	1.7
232	381	30	M	LE/BL	10	RP/SP	3	1.2
232	381	95	M	BL/LE	30	RP/SP	5	0.7
232	381	140+	M	LE/BL	10	RP	3	1.2
233	377	13	M	BL	10	RP	3	1.0
233	377	38	M	BL/LE	15	RP	2	1.1
233	377	60	M	BL/LE	15	RP/SP	3	1.1
233	377	105	M	BL/LE	12	RP/SP	3	1.1
233	377	140+	M	PO/LE	10	RP/SP	2	1.4
234	198	15	S	SB	5	RP	2	1.9
234	198	30	M	LE	10	SP	3	1.8
234	198	60	S	LE	10	SP	3	1.7
234	198	80	S	LE	20	SP	3	1.5
234	198	140+	M	LE	30	SP	2	1.4
235	199	15	S	SB	5	RP	2	1.9
235	199	30	M	LE	10	SP	2	1.8
235	199	60	S	LE	20	SP	3	1.6
235	199	80	S	LE	20	SP	3	1.5
235	199	100	M	LE	30	SP	3	1.6
235	199	140+						1.4
236	200	15	S	SB	5	RP	2	1.9
236	200	30	M	LE	10	SP	3	1.8
236	200	60	S	LE	20	SP	3	1.6
236	200	100	M	LE	30	SP	3	1.5
236	200	140+	M	LE	10	SP	2	1.6
237	111	15	S	GR	10	RP	2	1.9
237	111	30	S	LE	20	SP	2	1.8
237	111	60	S	LE	20	SP	2	1.8
237	111	100	S	LE	20	SP	2	1.7
237	111	140+	W	LE	40	E	3	1.5
238	112	15	S	GR	10	RP	2	1.8
238	112	30	M	LE	10	SP	3	1.8
238	112	60	W	LE	30	E	4	1.0
238	112	100	S	LE	20	SP	4	1.1
238	112	140+	M	LE	30	SP	4	0.8
239	305	15	S	SB	5	RP	2	1.8
239	305	30	M	PO	10	RP	2	1.6
239	305	90	M	PO	10	RP/SP	2	1.1
239	305	140+	M	BL/LE	15	RP	2	1.1
240	210	15	S	SB	10	RP	2	2.0
240	210	30	M	LE/PO	20	SP	3	1.8
240	210	60	S	LE	20	SP	4	1.7
240	210	120	S	LE	20	SP	4	1.6
240	210	140+	S	LE	20	SP	4	0.5
241	380	15	S	SB	3	RP	1	1.9
241	380	55	M	LE/PO	15	RP/SP	5	0.9
241	380	110	S	PO/LE	8	SP/RP	5	1.0
241	380	140+	M	PO/LE	8	RP	3	1.3
242	379	15	S	SB	3	RP	2	1.9
242	379	40	M	LE/PO	15	RP/SP	4	1.0
242	379	85	S	PO/LE	8	SP/RP	3	1.2
242	379	140+	M	PE/LE	12	RP/SP	3	1.1
243	378	10	S	SB	7	RP	2	1.8
243	378	60	M	BL/LE	25	SP/RP	5	0.8
243	378	90	M	LE	15	SP/RP	5	0.9
243	378	140+	M	PO/LE	7	RP	3	1.2
244	386	5	W	PL	10	E	3	1.1
244	386	15	M	PL	15	RP	3	0.7
244	386	40	M	PO/BL	8	RP	2	1.5
244	386	73	S	PO	5	RP	2	1.8

Map ID	Field Site ID	Lower Depth	Grade	Type	Size	Fabric	Consistence	SOILpak score
244	386	140+	M	LE/PO	8	RP	2	1.6
245	383	5	M	PO	10	E	2	1.3
245	383	20	W	BL	30	RP	6	0.3
245	383	50	M	LE	8	RP	3	1.1
245	383	95	W	LE/BL	12	RP	5	0.8
245	383	140+	M	LE	7	RP	3	1.1
246	197	15	S	SB	5	RP	2	1.9
246	197	30	M	LE	10	SP	2	1.8
246	197	60	S	LE	10	SP	3	1.6
246	197	80	S	LE	30	SP	3	1.5
246	197	140+	S	LE	50	SP	4	1.0
247	201	15	S	SB	5	RP	2	1.9
247	201	40	M	LE	10	SP	3	1.8
247	201	120+						1.2
248	118	20	S	SB	3	RP	2	1.8
248	118	50	M	PO	10	RP	2	1.6
249	109	15	M	GR	10	SP	1	1.8
249	109	30	M	LE	10	SP	2	1.7
249	109	60	M	LE	10	SP	3	1.7
249	109	100						1.0
249	109	140+						1.3
250	108	15	M	GR	10	RP	1	1.9
250	108	30	S	LE	20	SP	2	1.8
250	108	60	S	LE	20	SP	3	1.5
250	108	100	M	LE	20	SP	4	1.2
250	108	140+	S	LE	30	SP	4	0.9
251	153	10	S	SB	5	RP	2	1.8
251	153	25	S	PO	7	RP	2	1.6
251	153	60	S	LE	10	RP/SP	3	1.2
251	153	95	S	LE	10	SP	4	1.1
252	207	15	S	GR	5	RP	2	2.0
252	207	30	W	LE/SBI	10	SP	2	1.9
252	207	60	S	LE	20	SP	2	1.8
252	207	100	M	LE	20	SP	2	1.8
252	207	140	M	LE	20	SP	2	1.8
252	207	200	M	LE	20	SP	2	1.8
252	207	300	S	LE	20	SP	2	1.8
253	208	15	S	GR	5	RP	2	1.9
253	208	30	W	LE	10	SP	2	1.8
253	208	60	M	LE	20	SP	2	1.7
253	208	100	M	LE	20	SP	2	1.6
253	208	140+	S	LE	20	SP	3	1.5
254	301	17	M	PO	7	E	2	1.6
254	301	35	M	PO/LE	10	RP	4	1.2
254	301	60	S	PL/LE	10	RP	3	1.3
254	301	90	S	BL/LE	12	RP	3	1.1
254	301	140+	M	PO/LE	8	RP	3	1.3
255	302	10	M	SB	8	E	2	1.7
255	302	25	S	PO	7	RP	3	1.7
255	302	45	M	PO/LE	10	RP	3	1.4
255	302	140+	S	LE	20	SP/RP	4	0.8
256	303	20	S	SB	7	RP	3	1.6
256	303	70	M	PL	20	RP	6	0.3
256	303	100	S	PO/LE	10	SP/RP	2	1.7
256	303	140+	S	PO/LE	8	SP	3	1.7
257	304	15	M	SB	5	RP	1	1.7
257	304	60	S	PO/LE	20	RP	5	1.1
257	304	90	M	LE/PO	12	RP	2	1.3
257	304	140+	S	LE	20	RP/SP	3	1.2
258	349	10	M	BL	25	RP	5	0.8
258	349	65	M	BL/LE	15	RP/SP	5	0.7
258	349	110	M	PO	8	RP	2	1.5
258	349	140+	S	LE/BL	12	SP/RP	3	1.1

Map ID	Field Site ID	Lower Depth	Grade	Type	Size	Fabric	Consistence	SOILpak score
259	348	10	S	PO	12	RP	3	1.2
259	348	35	W	BL/LE	25	RP	5	0.5
259	348	65	M	LE/BL	12	RP/SP	5	0.9
259	348	140+	M	LE/BL	10	RP/SP	3	1.1
260	346	10	S	SP	3	RP	2	1.8
260	346	80	S	BL/LE	20	RP	5	0.8
260	346	140+	M	LE	10	RP	3	1.0
261	347	10	S	AB	4	RP	3	1.9
261	347	55	S	SB	5	RP/SP	2	1.7
261	347	100	S	LE/BL	15	SP	5	0.8
261	347	140+	M	BL/LE	10	RP	3	1.0
262	385	15	W	BL	20	RP	3	0.9
262	385	50	M	LE/PO	15	RP	5	0.7
262	385	85	M	PO/LE	12	RP	3	1.2
262	385	140+	M	LE	10	RP	3	1.2
263	384	14	G					1.5
263	384	35	W	LE/BL	10	E	2	1.2
263	384	45	G					1.5
263	384	75	M	LE	15	RP	5	0.7
263	384	140+	M	LE/BL	15	RP	4	0.6
264	246	12	W	BL/PO	15	E	3	1.2
264	246	30	M	LE	10	E	2	0.7
264	246	60	M	BL/LE	20	RP	4	0.6
264	246	110	M	LE/BL	20	RP	5	0.5
264	246	140+	S	LE/BL	15	RP/SP	5	0.5
265	245	13	W	BL	40	RP	3	0.4
265	245	38	S	LE/PO	15	RP/SP	5	1.1
265	245	65	M	BL	25	RP/SP	5	0.8
265	245	140+	M	LE	15	RP/SP	3	1.1
266	235	15	S	GR	10	RP	2	1.8
266	235	30	M	SB	20	RP	2	1.6
266	235	60	S	LE	20	SP	4	1.4
266	235	100	S	LE	20	SP	4	1.0
266	235	140+	M	LE	30	SP	4	0.9
267	204	15	S	SB	5	RP	2	1.8
267	204	40	M	LE	20	SP	2	1.8
267	204	100	S	LE	20	SP	4	1.5
267	204	140+	M	LE	30	SP	4	1.0
268	202	15	S	SB	5	RP	2	1.9
268	202	30	M	LE	10	SP	3	1.8
268	202	60	S	LE	20	SP	3	1.6
268	202	140+	M	LE	30	SP	3	1.4
269	117	20	M	PO	3	RP	2	1.7
269	117	55	M	PO	7	RP	2	1.5
269	117	120	M	PO	7	RP	2	1.5
269	117	130+	Basalt Rock					
270	119	12	S	SB	6	RP	2	1.8
270	119	45	S	PO/LE	10	RP	4	1.2
270	119	100	S	LE	8	SP	5	0.8
270	119	140+	M	LE	12	RP/SP	4	1.0
271	110	15	S	GR	10	RP	1	1.9
271	110	30	S	LE	10	SP	2	1.8
271	110	60	S	LE	10	SP	3	1.7
271	110	100	S	LE	20	SP	3	1.6
271	110	140+	M	LE	20	SP	3	1.6
272	61	5	S	G	5	RP	2	1.8
272	61	30	S	LE	10	S	2	1.7
272	61	60	S	LE	20	S	2	1.7
272	61	80	S	LE	20	S	2	1.6
272	61	100	S	LE	30	S	3	1.5
272	61	140+						
273	59	5	S	G	5	RP	3	1.7
273	59	30	M	LE	10	SP	2	1.7

Map ID	Field Site ID	Lower Depth	Grade	Type	Size	Fabric	Consistence	SOILpak score
273	59	80	S	LE	10	SP	2	1.5
273	59	100	S	LE	10	SP	3	1.3
273	59	140+	M	LE	20	SP	2	1.5
274	300	15	M	PO	8	E	1	1.7
274	300	28	M	LE	8	E	2	1.2
274	300	75	S	LE/PO	15	RP	5	0.9
274	300	85	S	LE	10	RP/SP	2	1.3
274	300	140+	M	LE/BL	8	RP	2	1.4
275	360	15	M	BL/PO	12	RP	2	1.3
275	360	35	S	LE/BL	10	RP	4	0.8
275	360	60	S	BL/LE	20	RP/SP	5	0.7
275	360	140+	M	BL/LE	8	SP/RP	3	1.2
276	350	10	W	BL	30	RP	5	0.5
276	350	70	S	LE/BL	15	RP/SP	5	0.7
276	350	100	S	LE/BL	20	SP/RP	4	0.9
276	350	140+	M	LE/PO	10	RP	2	1.4
277	351	10	M	BL	25	RP	5	0.5
277	351	40	S	BL	20	RP	5	0.3
277	351	80	S	LE	15	SP	5	0.6
277	351	140+	M	LE/PO	10	RP	3	1.3
278	352	10	S	BL/LE	10	RP	4	0.9
278	352	40	M	BL/LE	30	RP	5	0.6
278	352	105	S	LE/BL	15	SP/RP	5	0.7
278	352	140+	M	LE/PO	7	RP	3	1.2
279	345	8	S	PO	3	RP	3	1.8
279	345	30	M	PO	8	RP	2	1.5
279	345	60	S	LE/PO	7	SP/RP	4	1.2
279	345	90	S	BL/LE	15	SP/RP	5	0.9
279	345	140+	M	LE	15	RP	5	0.6
280	340	5	S	PO	3	RP	2	1.9
280	340	20	M	PO/LE	10	RP/SP	3	1.3
280	340	90	S	LE/BL	20	SP/RP	5	1.1
280	340	140+	M	LE/BL	12	SP/RP	3	1.3
281	338	20	M	PO	7	E	2	1.6
281	338	40	M	BL/PO	10	E	2	1.5
281	338	70	M	BL/LE	12	RP	3	1.2
281	338	140+	M	LE	10	RP	3	1.2
282	359	15	M	BL/LE	12	RP	3	0.6-1.2
282	359	32	M	BL/LE	15	RP	4	0.9
282	359	70	M	LE/PO	15	RP	5	1.1
282	359	103	M	BL/LE	20	RP	6	0.9
282	359	140+	M	LE/BL	10	RP	7	1.2
283	242	17	M	PO	10	E	2	1.3
283	242	42	W	BL/LE	15	RP	2	1.7
283	242	60	M	LE	10	RP	4	0.9
283	242	140+	M	BL/LE	15	RP/SP	5	0.5
284	243	15	M	BL	30	RP	5	0.3
284	243	45	M	LE/PL	15	RP	5	0.5
284	243	90	W	BL	25	RP	6	0.3
284	243	140+	M	LE/BL	15	RP/SP	4	0.7
285	244	10	W	BL	40	RP	5	0.3
285	244	20	M	LE/PO	15	RP/SP	4	0.8
285	244	40	M	LE/PO	20	RP/SP	3	1.0
285	244	60	M	LE/PO	30	RP	5	0.6
285	244	90	M	LE/PO	30	SP/RP	5	0.8
285	244	140+	S	LE	15	SP	4	0.9
286	234	15	S	SB	10	RP	3	1.7
286	234	30	W	LE	20	SP	2	1.7
286	234	60	S	LE	20	SP	4	1.5
286	234	100	M	PR	100	SP	4	1.1
286	234	140+	M	PR/LE	50	SP	4	0.8
287	203	15	M	SB	5	RP	2	1.8
287	203	30	M	LE/SB	20	SP	0	1.8

Map ID	Field Site ID	Lower Depth	Grade	Type	Size	Fabric	Consistence	SOILpak score
287	203	60	S	LE	20	SP	0	1.6
287	203	100	S	LE	20	SP	0	1.3
288	116	10	M	SB	5	RP	2	1.7
288	116	40	S	SB	7	RP	2	1.6
288	116	60	M	PO	10	RP	2	1.5
289	115	15	S	SB	3	E	1	1.9
289	115	65	S	SB	5	RP	2	1.7
289	115	120	M	PO	7	RP	2	1.6
290	107	15	S	GR	5	RP	2	1.9
290	107	30	S	LE	20	SP	2	1.8
290	107	60	S	LE	10	SP	2	1.8
290	107	100	S	LE	20	SP	2	1.8
290	107	140+	S	LE	30	SP	3	1.7
291	106	15	S	SB	10	RP	2	1.9
291	106	30	S	SB/LE	20	SP	2	1.8
291	106	60	S	LE	20	SP	2	1.8
291	106	100	S	LE	20	SP	3	1.6
291	106	140+	S	LE	50	SP	3	1.6
292	60	5	S	SB	5	RP	2	1.8
292	60	25	M	LE/PO	8	RP	2	1.7
292	60	70	S	LE	20	SP	3	1.2
292	60	100	S	LE	10	SP	2	1.4
292	60	140+	M	LE	15	RP/SP	3	1.2
293	374	18	G					1.5
293	374	30	G					1.5
293	374	55	S	LE/CO	12	RP	4	0.7
293	374	80	M	LE	10	RP	3	1.0
293	374	140+	M	BL/LE	10	RP	5	0.8
294	373	18	G					1.5
294	373	60	G					1.5
294	373	70	W	LE	15	RP	3	0.8
294	373	140+	W	LE	7	RP	3	0.4
295	361	10	S	PL	15	E	4	0.3
295	361	45	M	PL	12	RP	4	0.5
295	361	90	M	LE/BL	10	RP	5	0.6
295	361	140+	M	LE	15	SP/RP	4	0.7
296	362	10	S	SB	5	RP	2	1.9
296	362	40	S	LE/BL	25	SP/RP	4	1.1
296	362	70	S	LE	10	SP/RP	4	1.3
296	362	140+	M	LE/BL	15	RP/SP	4	1.3
297	363	5	S	SB	3	RP	3	1.9
297	363	17	M	POP/LE	12	RP/SP	2	1.5
297	363	60	S	LE/BL	8	SP/RP	4	1.2
297	363	90	M	BL/LE	20	RP/SP	5	0.8
297	363	140+	M	LE	10	RP	2	1.1
298	364	5	S	PO	4	RP	4	1.7
298	364	15	M	PO/LE	12	RP/SP	2	1.4
298	364	40	M	BL/LE	40	RP/SP	6	0.3
298	364	85	M	BL/LE	25	RP/SP	6	0.5
298	364	140+	M	LE	8	RP	3	1.1
299	344	10	W	BL	30	RP	5	0.5
299	344	75	M	PO/LE	12	RP/SP	5	0.9
299	344	140+	M	LE	15	SP/RP	5	0.7
300	339	10	S	PO	10	RP	4	1.3
300	339	50	S	PO/BL	12	RP/SP	4	1.2
300	339	70	S	PO/BL	15	RP/SP	4	1.2
300	339	140+	M	LE/PO	15	RP	3	1.2
301	336	10	M	PO/PL	12	E	3	1.0
301	336	38	M	PO/PL	8	E	2	1.2
301	336	55	M	LE	15	RP	3	0.9
301	336	140+	W	BL/LE	10	RP	4	0.8
302	337	10	M	PO	8	E	2	1.4
302	337	20	W	LE	25	E	5	0.3

Map ID	Field Site ID	Lower Depth	Grade	Type	Size	Fabric	Consistence	SOILpak score
302	337	50	M	PL/PO	10	RP	2	1.2
302	337	105	S	LE/PO	8	RP	3	1.2
302	337	140+	S	LE	15	RP	5	0.6
303	241	15	M	BL/LE	20	E	3	0.8
303	241	35	M	LE	15	RP	3	0.9
303	241	55	M	LE	15	RP	2	0.8
303	241	70	M	LE	20	RP	3	0.8
303	241	140+	S	LE	15	SP/RP	4	0.7
304	240	15	M	SB	10	RP	2	1.8
304	240	30	W	LE	20	SP	3	1.5
304	240	60	M	LE	30	SP	4	1.3
304	240	80	S	LE	10	SP	3	1.3
304	240	140+	M	AB	20	SP	4	0.8
305	239	15	M	SB	20	RP	3	1.7
305	239	30						1.7
305	239	50	M	PR	40	RP	4	1.5
305	239	70	M	LE	30	SP	4	0.9
305	239	140+	M	LE	20	SP	4	0.8
306	233	15	M	SB	10	RP	2	1.8
306	233	30	W	LE	10	SP	3	1.6
306	233	60	M	LE	10	SP	3	1.6
306	233	100	M	LE	10	SP	3	1.4
306	233	140+	M	LE	20	SP	4	0.8
307	231	15	M	SB	30	RP	2	1.7
307	231	30	M	SB	10	RP	2	1.7
307	231	60	M	PR	10	RP	3	1.4
307	231	100	M	LE	10	SP	4	0.5
307	231	140+						0.9
308	389	17	S	PO	15	RP	4	1.0
308	389	30	S	PO/LE	10	RP	4	1.0
308	389	100	S	BL/LE	12	SP/RP	5	1.1
308	389	140+	M	LE	7	SP/RP	3	1.2
309	392	15	S	SB	4	RP	2	1.9
309	392	40	S	SB	5	RP	3	1.6
309	392	90	S	SB	5	RP	2	1.7
310	395	15	M	BL	20	RP	4	0.9
310	395	40	M	BL/LE	15	SP/RP	3	1.1
310	395	105	M	LE/BL	12	SP/RP	4	1.0
310	395	140+	M	LE/PO	15	RP	3	1.2
311	397	15	M	BL/PO	10	RP	2	1.4
311	397	50	S	LE	8	SP/RP	3	1.2
311	397	120	M	LE/BL	10	SP/RP	4	1.0
311	397	140+	M	LE/BL	12	RP/SP	3	1.1
312	398	12	S	SB	3	RP	2	1.9
312	398	60	S	BL/LE	15	SP/RP	4	1.2
312	398	100	S	LE	8	RP/SP	4	1.2
312	398	140+	M	PO/LE	7	RP/SP	3	1.3
313	299	10	M	PO	10	E	1	1.6
313	299	25	M	PO	8	E	1	1.7
313	299	50	M	PL/LE	10	RP	2	1.1
313	299	140+	M	LE	12	RP	3	0.8
314	376	15	G					1.5
314	376	45	G					1.5
314	376	85	G					1.5
314	376	140+	M	LE	10	RP	4	0.9
315	372	12	M	PO	5	RP	2	1.5
315	372	30	M	PO	8	RP	2	1.4
315	372	55	M	PO	10	RP	4	1.1
315	372	85	M	LE	8	RP	5	0.6
315	372	140+	M	SP/RP	15	SP/RP	6	0.5
316	367	8	S	PO	5	RP	3	1.6
316	367	25	M	LE/BL	12	RP/SP	5	0.7
316	367	75	S	LE	10	RP/SP	5	0.8

Map ID	Field Site ID	Lower Depth	Grade	Type	Size	Fabric	Consistence	SOILpak score
316	367	140+	M	BL/LE	12	RP/SP	4	1.0
317	366	15	S	SB	7	RP	2	1.7
317	366	75	S	BL/LE	12	RP/SP	5	1.0
317	366	140+	S	LE/BL	15	RP/SP	4	1.0
318	365	12	M	BL/LE	10	RP/SP	2	1.0
318	365	50	M	BL/LE	30	RP/SP	6	0.3
318	365	80	M	BL/LE	12	RP/SP	5	0.7
318	365	140+	M	LE/PO	7	RP/SP	3	1.2
319	343	5	S	SP	3	RP	3	1.9
319	343	45	S	PO	7	RP	2	1.5
319	343	85	S	LE	15	RP/SP	4	0.8
319	343	140+	M	LE/BL	15	RP/SP	4	0.7
320	334	18	W	BL	15	RP	5	0.5
320	334	45	M	BL/LE	10	RP	4	1.2
320	334	95	M	PO	7	RP	3	1.4
320	334	140+	M	PO	7	RP	3	1.4
321	335	15	M	PO/LE	7	E	3	1.3
321	335	55	M	PO/LE	8	RP	3	1.1
321	335	140+	M	LE	10	RP	5	0.8
322	355	12	M	PO	8	E	2	1.6
322	355	33	M	LE/BL	8	RP	4	1.2
322	355	48	M	LE/BL	8	RP	3	1.2
322	355	90	M	LE	12	RP	3	1.0
323	236	15	M	SB	10	RP	1	1.8
323	236	30	W	SB	20	E	2	1.6
323	236	50	M	SB	20	E	2	1.6
323	236	80	M	PR	100	SP	3	1.5
323	236	140+						1.0
324	237	20	M	SB	10	RP	1	1.8
324	237	40						1.5
324	237	60						1.2
324	237	100	S	LE	20	Sp	3	1.1
324	237	140+	S	LE	20	SP	4	0.9
325	238	15	M	SB	20	RP	4	1.8
325	238	30	M	LE	20	SP	4	1.5
325	238	50	S	LE	10	SP	3	1.5
325	238	100	S	LE	20	SP	4	1.3
325	238	140+	S	LE	10	SP	3	0.8
326	232	15	M	SB	10	RP	1	1.8
326	232	30	W	SB	20	E	2	1.6
326	232	60	M	LE	20	SP	2	1.6
326	232	100	S	LE	30	SP	3	1.0
326	232	140+	S	LE	10	SP	3	1.0
327	388	15	M	PO	7	E	1	1.7
327	388	40	(95% CF)					
327	388	70	M	LE	8	RP	4	1.0
328	390	15	G					1.5
328	390	45	G					1.5
329	393	12	M	PO	10	RP	2	1.5
329	393	32	M	LE/BL	8	RP	5	0.8
329	393	60	S	LE/BL	20	SP/RP	4	0.7
329	393	140+	W	LE/BL	7	RP	4	1.1
330	396	20	M	BL/LE	20	RP	3	1.1
330	396	35	M	LE/BL	10	RP/SP	2	1.4
330	396	140+	S	LE/BL	20	RP	5	0.8
331	400	13	S	SB	4	RP	2	1.9
331	400	35	S	SB	7	RP	2	1.8
331	400	80	S	LE/BL	15	SP/RP	4	1.1
331	400	140	M	LE	15	SP/RP	3	1.1
332	399	10	M	BL/PO	20	RP	4	0.8
332	399	40	M	LE/BL	12	SP/RP	4	1.0
332	399	90	M	LE/PO	15	SP/RP	3	1.1
332	399	140+	M	LE	20	SP/RP	2	1.2

Map ID	Field Site ID	Lower Depth	Grade	Type	Size	Fabric	Consistence	SOILpak score
333	404	5	S	SB	5	RP	3	1.8
333	404	30	S	SB	8	RP	2	1.7
333	404	105	S	LE	10	SP/RP	4	1.2
333	404	140+	M	LE/BL	8	RP	3	1.0
334	375	15	W	PO	3	E	2	1.7
334	375	60	M	LE/PL	8	RP	2	1.1
334	375	140+	M	LE/PO	10	RP	3	1.2
335	371	10	W	G				1.0
335	371	20	W	G				1.5
335	371	50	M	PO	5	E	1	1.7
335	371	78	W	PO	3	E	1	1.8
336	370	12	S	SB	5	E	2	1.8
336	370	45	S	PO	8	E	2	1.6
336	370	110	S	PO	7	RP	2	1.7
337	368	13	S	BL	20	RP	4	0.3/0.7
337	368	32	M	LE/BL	15	RP	4	0.9
337	368	80	M	LE	8	SP/RP	4	1.0
337	368	140+	M	BL/LE	12	RP	4	1.1
338	369	15	S	SP	4	RP	1	1.9
338	369	45	M	PO	8	RP/SP	2	1.5
338	369	105	M	LE/BL	10	SP/RP	5	0.8
338	369	140+	M	BL/LE	25	RP	4	0.9
339	342	5	S	PO	10	RP	3	1.6
339	342	35	M	PO/LE	10	RP	3	1.3
339	342	100	S	PO/LE	15	RP/SP	4	1.2
339	342	140+	M	LE	10	SP/RP	4	0.9
340	341	2	S	SAB	3	RP	3	1.9
340	341	32	S	PO	7	RP	2	1.7
340	341	60	S	LE/PO	25	RP	4	1.1
340	341	140+	M	PO/LE	15	RP	4	1.2
341	333	7	M	PO	7	RP	3	1.3
341	333	15	W	BL	25	E	4	0.8
341	333	55	M	PO	7	RP	3	1.2
341	333	78	M	BL/PO	12	RP	5	1.0
341	333	90	M	BL/PO	10	RP	3	1.2
341	333	140+	M	PO	8	RP	3	1.4
342	353	10	S	PL	20	E	3	0.4
342	353	40	W	LE/BL	15	E	3	0.6
342	353	77	M	LE/BL	8	E	2	1.0
342	353	140+	M	BL	15	RP	3	1.3
343	354	10	W	PO	7	E	2	1.3
343	354	42	M	LE/PL/BL	7	E	3	1.0
343	354	80	M	LE/PL/BL	10	RP	3	0.7
343	354	140+	M	LE/PL/BL	8	RP	4	0.4
344	356	12	M	BL/PL	10	E	3	1.2
344	356	42	W	BE/LE	15	RP	4	0.9
344	356	80	M	LE/BL	8	RP	3	0.9
344	356	140	M	LE	8	RP	4	1.0
344	356	142+	enriched Sandstone					
345	357	15	M	LE/BL	10	E	2	0.8
345	357	42	M	BL/LE	12	E	2	1.2
345	357	58	M	LE/BL	10	E	2	1.3
345	357	85	S	LE/BL	10	RP	3	0.7
345	357	110	M	LE/PO	8	E	2	1.3
345	357	140+	W	BL	7	E	3	1.2
346	358	10	W	PO	7	E	1	1.7
346	358	30	W	PO	7	E	1	1.7
346	358	55	G					1.5
346	358	85	M	BL/LE	15	RP	5	0.8
346	358	110	M	BL	15	RP	5	0.7
346	358	140+	M	BL/LE	20	RP	5	0.5
347	387	5	M	SB	7	E	2	1.6
347	387	25	M	BL/PO	25	RP	5	0.9

Map ID	Field Site ID	Lower Depth	Grade	Type	Size	Fabric	Consistence	SOILpak score
347	387	70	M	BL/PO	12	RP	4	1.1
348	391	10	W	BL	40	RP	6	0.4
348	391	25	M	BL	15	RP	5	0.8
348	391	40	M	BL/LE	10	RP	5	0.8
348	391	85	M	LE	7	RP	4	0.7
348	391	110	M	BL/LE	20	RP	5	0.6
348	391	140+	S	LE	7	RP	3	1.4
349	394	7	M	PO	8	RP	4	1.3
349	394	30	M	BL/PO	20	RP	6	0.7
349	394	70	W	BL/LE	15	RP	5	0.7
349	394	140+	W	BL/LE	15	RP	5	0.8
350	401	18	M	BL	25	RP	3	0.9
350	401	60	M	LE/BL	10	RP	5	0.7
350	401	140+	M	LE	8	RP	2	1.3
351	402	5	M	PO	10	RP	3	1.3
351	402	15	S	CO/BL	20	RP	5	0.8
351	402	40	W	LE	15	RP	4	0.9
351	402	70	G					1.0
351	402	140+	S	CO/BL	30	RP	5	0.4
352	403	20	M	SB	7	RP	3	1.5
352	403	43						0.9/1.7
352	403	110	S	BL/PO	10	RP/SP	3	1.1
352	403	140+	S	BL/LE	15	RP/SP	4	1.0
353	279	15	M	AB	100	RP	4	1.6
353	279	30	M	LE	10	SP	3	1.7
353	279	60	S	LE	20	SP	4	1.6
353	279	100	S	LE	20	SP	4	1.6
353	279	140+	M	LE	40	SP	4	0.8
354	280	15	M	SB	5	RP	2	1.6
354	280	30	W	SB	5	E	2	1.6
354	280	60	W	SB	5	E	2	1.6
354	280	90						1.4
355	296	15	M	SB	10	RP	2	1.7
355	296	30						1.4
355	296	50	M	PR	50	SP	4	0.5
355	296	100	M	LE	30	SP	4	0.5
355	296	140+	M	LE	40	SP	4	0.3
356	282	15	M	SB	10	RP	3	1.6
356	282	30	M	LE	20	SP	3	1.6
356	282	60	M	LE	20	SP	3	1.6
356	282	100	M	LE	20	SP	4	1.4
356	282	140+	V			E	4	0.5
357	281	15	S	SB	5	RP	3	1.9
357	281	30	M	LE	10	SP	3	1.8
357	281	60	S	LE	20	SP	3	1.6
357	281	100	S	LE	20	SP	3	1.6
357	281	140+	S	LE	20	SP	3	1.5
358	294	15	W	SB	10	E	3	1.6
358	294	30	M	LE	10	SP	3	1.5
358	294	60	M	LE	20	SP	3	1.4
358	294	100	M	LE	30	SP	3	1.2
358	294	140+	V			E	4	0.8
359	295	15	M	SB	10	RP	2	1.7
359	295	40						1.6
359	295	60						1.4
359	295	100						1.0
359	295	120	M	AB	20	SP	4	0.5
360	125	5	M	SB	7	RP	2	1.5
360	125	25	W	LE	15	RP	3	0.8
360	125	50	W	BL/LE	20	RP	4	0.5
360	125	95	M	LE	15	RP	5	0.4
360	125	140+	M	LE	10	RP	4	0.9
361	283	15						1.0

Map ID	Field Site ID	Lower Depth	Grade	Type	Size	Fabric	Consistence	SOILpak score
361	283	30	M	LE	20	SP	3	1.3
361	283	50	M	LE	20	SP	3	1.3
361	283	100	M	AB	10	SP	4	0.8
361	283	140+	M	AB	10	RP	4	0.5
362	284	15	M	AB	20	RP	4	1.6
362	284	30	M	LE	20	SP	3	1.6
362	284	50	M	LE	20	SP	3	1.6
362	284	80						1.2
362	284	140+	V			E	4	0.5
363	285	15	M	SB	20	RP	4	1.1
363	285	30						1.1
363	285	60	M	PR	40	RP	4	0.8
363	285	100	V			E	4	0.8
363	285	140+	V			E	4	0.5
364	293	15	M	AB	10	RP	3	1.5
364	293	30						1.4
364	293	60						1.4
364	293	100	M	LE/PR	50	SP	4	1.0
364	293	140+	V			E	4	0.5
365	292	15	M	SB	10	RP	3	1.6
365	292	30						1.4
365	292	60						1.4
365	292	100	M	LE	20	SP	3	1.3
365	292	140+	M	PR	50	SP	4	1.0
366	124	5	S	PO	15	RP	5	0.8
366	124	15	W	BL	15	RP	3	0.7
366	124	65	M	LE	10	RP	2	1.1
366	124	140+	S	CO/LE	15	RP	3	0.9
367	126	12	M	PO	10	RP	3	1.3
367	126	60	M	PO	8	RP	2	1.2
367	126	130+	W	LE	15	RP	5	0.5
368	286	15	M	AB	20	RP	4	1.5
368	286	30	M	LE	20	SP	4	1.0
368	286	60	M	AB	50	RP	4	1.0
368	286	100	M	PR	100	RP	4	0.8
368	286	140+	S	LE	20	SP	4	0.5
369	287	15	W	SB	10	RP	3	1.8
369	287	30						1.6
369	287	60	S	PR	50	SP	4	0.5
369	287	100	M	LE	40	SP	4	0.5
369	287	140+	M	AB	20	RP	3	0.8
370	290	15	W	SB	10	E	2	1.4
370	290	30	M	SB	10	RP	3	1.4
370	290	60	V			E	4	0.8
370	290	100	V			E	4	0.5
371	291	15	M	SB	5	RP	2	1.8
371	291	30						1.6
371	291	60						1.4
371	291	110	M	LE	20	SP	3	1.0
371	291	140+	V			E	4	0.2
372	278	3	S	Crust			2	
372	278	15	S	AB	20	RP	4	1.8
372	278	50	M	LE	20	SP	4	1.5
372	278	100	M	PR	20	RP	4	0.8
372	278	140+	M	AB	10	RP	3	0.8
373	123	5	S	PO	15	RP	5	0.7
373	123	30	W	LE	20	RP	3	0.4
373	123	55	W	LE	12	RP	2	0.8
373	123	140+	M	LE	10	RP	3	0.9
374	127	8	M	PO	8	E	2	1.6
374	127	17	W	BL	30	E	3	0.6
374	127	50	W	LE/BL	15	RP	3	0.5
374	127	90	M	LE	12	RP	2	0.9

Map ID	Field Site ID	Lower Depth	Grade	Type	Size	Fabric	Consistence	SOILpak score
374	127	140+	M	BL	15	RP	3	0.8
375	289	15	M	SB	5	RP	2	1.8
375	289	60	M	SB	10	E	2	1.6
375	289	90						1.0
375	289	120+	V			E	4	0.8
376	288	15	M	SB	10	RP	3	1.8
376	288	50	M	SB	10	E	3	1.8
376	288	80	V			E	4	0.8
376	288	120+	V			E	4	0.5
377	138	8	S	SB	3	E	1	1.9
377	138	22	M	SB	3	E	1	1.8
377	138	50	M	PO	5	RP	1	1.7
377	138	70	M	PO	7	RP	1	1.5
378	139	12	M	SB	3	E	1	1.7
378	139	50	M	PO	5	E	1	1.6
378	139	100	W	PO	7	E	1	1.5
378	139	140+	W	BL	10	E	1	1.3
379	120	15	S	SB	7	RP	1	1.8
379	120	45	W	LE	20	RP	2	0.7
379	120	50	M	LE	12	RP	3	0.9
379	120	140+	M	LE	10	RP	2	1.0
380	130	10	M	SB	3	E	1	1.8
380	130	20	M	SB	5	E	1	1.7
380	130	40	M	SB	5	RP	1	1.8
381	152	5	M	SB	3	E	1	1.7
381	152	20	M	SB	3	E	1	1.7
381	152	48	M	PO	5	RP	1	1.5
381	152	70	M	PO	7	RP	1	1.4
382	151	10	S	SB	3	E	1	1.8
382	151	25	M	SB	5	E	1	1.8
382	151	50	M	PO	7	RP	1	1.6
382	151	80	M	PO	7	RP	2	1.5
383	146	12	M	SB	5	E	1	1.7
383	146	45	M	PO	5	E	1	1.6
383	146	60	M	BL/PO	12	RP	2	1.2
383	146	110	M	LE	15	RP	3	0.8
384	145	20	S	SB	3	E	1	1.8
384	145	50	M	PO	7	RP	2	1.5
384	145	85	M	PO/BL	10	RP	2	1.2
384	145	105	W	LE	10	RP	4	0.8
385	140	15	M	PO	3	E	1	1.7
385	140	35	M	PO	5	E	1	1.6
385	140	70	W	LE	10	RP	2	1.0
385	140	140+	S	LE	15	SP/RP	5	0.4
386	143	15	M	PO	5	E	1	1.7
386	143	60	M	PO	8	RP	1	1.4
386	143	140+	M	LE/BL	12	RP	3	0.7
387	128	10	W	BL/LE	20	RP	3	0.6
387	128	45	M	LE	10	SP/RP	3	0.9
387	128	90	M	LE	10	RP	5	0.7
387	128	140+	M	LE	8	RP	5	0.8
388	131	15	W	BL	20	RP	3	0.5
388	131	45	S	LE/BL	10	RP/SP	4	1.0
388	131	90	S	LE	12	RP/SP	4	1.1
388	131	140+	M	LE/BL	10	RP	3	1.2
389	136	10	M	SB	3	E	1	1.9
389	136	25	M	SB	3	E	1	1.8
389	136	65	M	PO	7	RP	2	1.8
389	136	85	M	LE	15	RP	2	1.0
390	147	15	M	SB	3	E	1	1.7
390	147	40	M	PO	5	E	1	1.7
390	147	65	M	PO	7	RP	1	1.6
390	147	100	M	PO	7	RP	1	1.6

Map ID	Field Site ID	Lower Depth	Grade	Type	Size	Fabric	Consistence	SOILpak score
391	141	8	M	BL	12	RP	2	1.2
391	141	18	M	BL	15	RP	3	0.9
391	141	100	M	LE/BL	15	RP	4	0.8
391	141	140+	M	LE	10	RP	5	0.4
392	144	15	S	SB	5	E	1	1.8
392	144	45	M	PO	7	E	1	1.4
392	144	75	W	LE	12	RP	2	0.9
392	144	100	S	CO/LE	40	RP	5	0.4
392	144	140+	V				5	0.2
393	129	10	W	BL	20	RP	3	0.6
393	129	40	M	LE	10	RP	3	1.0
393	129	80	S	LE	8	RP/SP	3	1.0
393	129	140+	M	BL/LE	20	RP	4	0.7
394	132	15	W	BL	30	RP	3	0.6
394	132	40	M	BL/LE	15	RP	3	0.7
394	132	70	M	LE	10	RP	4	0.8
394	132	140+	M	BL/LE	15	RP	5	0.7
395	121	10	M	PO	12	RP	2	1.3
395	121	50	M	BL	15	RP	2	1.3
395	121	140+	M	LE	10	RP	4	0.9
396	137	10	M	PO	5	E	1	1.7
396	137	25	M	PO	6	E	1	1.6
396	137	35	W	LE	15	RP	3	0.7
396	137	60	M	LE	8	RP	2	0.9
397	148	20	M	SB	2	E	1	1.8
397	148	40	M	SB	3	E	1	1.6
397	148	90	W	PO	5	RP	1	1.6
398	142	7	S	G	7	RP	4	1.8
398	142	18	W	LE	15	RP	3	0.9
398	142	80	S	LE	10	RP/SP	3	1.3
398	142	140+	S	LE/BL	15	SP/RP	4	1.1
399	133	10	W	BL	30	RP	3	0.5
399	133	20	M	LE/BL	15	RP	2	0.8
399	133	60	M	LE	12	RP	3	0.9
399	133	140+	M	LE/BL	15	RP	4	0.9
400	122	10	M	PO	5	RP	1	1.8
400	122	55	M	LE	15	RP	2	0.8
400	122	100	W	LE	15	RP	3	0.6
400	122	130+	M	LE	10	RP	2	1.0
401	134	8	M	SB	2	E	1	1.8
401	134	30	M	SB	3	RP	1	1.7
401	134	50	M	SB	4	RP	1	1.7
401	134	90	M	PO	4	RP	1	1.6
401	134	130+	M	PO	4	RP	1	1.6
402	150	12	M	SB	3	E	1	1.8
402	150	30	M	PO	5	E	1	1.7
402	150	55	M	PO	5	RP	1	1.6
402	150	75	M	PO	7	RP	1	1.5
403	149	8	M	PO	3	E	1	1.7
403	149	30	M	PO	3	E	1	1.7
403	149	40	M	PO	7	E	2	1.4
403	149	90	W	PO	7	RP	2	1.4
404	135	20	V			RP	2	0.3
404	135	50	W	PL/LE	30	RP	6	0.3
404	135	90	M	LE	15	RP	3	0.9
404	135	140+	M	PL/LE	10	RP	3	1.0

Lab ID	BHPB Site ID	Map ID Feb '14	Site Photo ID	Depth, cm	pH 1:5 water	pH CaCl2	EC 1:5 dS/m	ECe dS/m	Chloride mg/kg	Exchangeable cations, meq/100g					CEC	ESP	ESI	Ca/Mg	ASWAT score	NO3-N mg/kg	Colwell-P mg/kg	PBI	SO4-S mg/kg	DTPA-Zn mg/kg	DTPA-Cu mg/kg	Boron mg/kg	Org. C %
										Ca	Mg	K	Na	Al													
21371912	RPR11	1	318	0 to 5	6.3	5.5	0.12	1.03	25	9.5	11.0	1.8	0.4	0.0	22.7	1.9	0.06	0.9	5	14	55	180	15	1.4	3.3	0.9	2.40
21371913	RPR11	1	318	5 to 15	6.6	5.8	0.12	1.03	52	10.0	15.0	1.3	1.0	0.0	27.3	3.7	0.03	0.7	5	2	25	170	7	0.2	3.3	1.0	1.70
21371914	RPR11	1	318	15 to 30	7.2	6.2	0.11	0.74	20	12.0	21.0	1.5	1.5	0.0	36.0	4.2	0.03	0.6	14	3	18	170	4	0.2	3.2	1.1	1.30
21371915	RPR11	1	318	30 to 60	8.7	8.2	0.54	3.62	540	14.0	36.0	1.0	4.3	0.0	55.3	7.8	0.07	0.4	0	0	14	160	8	0.1	2.5	4.1	0.58
21371916	RPR11	1	318	60 to 100	8.5	8.3	1.42	12.21	1700	17.0	41.0	1.3	6.5	0.0	65.8	9.9	0.14	0.4	0	0	54	170	110	0.1	2.1	5.1	0.34
21371917	RPR11	1	318	200	8.5	8.3	1.60	13.76	2000	23.0	53.0	1.4	7.4	0.0	84.8	8.7	0.18	0.4	0	0	63	190	100	0.2	1.5	3.9	0.10
21371918	RPR11	1	318	300	8.6	8.3	1.43	12.30	1800	24.0	52.0	1.2	7.4	0.0	84.6	8.8	0.16	0.5	0	0	41	190	99	0.2	1.0	3.5	0.10
21371919	RPR10	2	319	0 to 5	6.5	5.6	0.04	0.91	5	2.9	1.4	0.6	0.0	0.0	4.9	0.2	0.19	2.1	5	0	35	52	2	1.0	0.5	0.2	0.95
21371920	RPR10	2	319	5 to 15	6.5	5.2	0.02	0.45	16	1.8	0.9	0.5	0.0	0.1	3.3	0.9	0.02	2.0	5	0	27	33	1	0.2	0.4	0.1	0.52
21371921	RPR10	2	319	15 to 30	6.8	5.4	0.01	0.23	17	1.5	1.0	0.4	0.0	0.1	3.0	0.3	0.03	1.5	9	0	20	34	1	0.1	0.3	0.1	0.17
21371922	RPR10	2	319	30 to 60	7.3	6.0	0.03	0.26	5	6.0	6.4	1.1	0.1	0.0	13.6	0.5	0.06	0.9	12	0	41	120	1	0.1	1.3	0.4	0.23
21371923	RPR10	2	319	60 to 100	7.4	6.3	0.04	0.34	42	3.6	4.4	0.8	0.1	0.0	8.9	0.9	0.04	0.8	7	0	68	110	1	0.0	0.8	0.5	0.10
21371949	RPR 9	3	325	0 to 5	6.1	4.9	0.04	0.55	13	6.0	2.1	1.1	0.0	0.1	9.3	0.2	0.19	2.9	8	4	75	140	2	3.3	1.3	0.4	2.90
21371950	RPR 9	3	325	5 to 15	5.9	4.7	0.02	0.28	18	6.0	2.5	1.0	0.0	0.1	9.6	0.4	0.05	2.4	7	1	29	99	1	0.3	1.6	0.3	1.30
21371951	RPR 9	3	325	15 to 30	6.5	5.1	0.02	0.28	5	5.5	2.4	0.8	0.1	0.1	8.8	0.9	0.02	2.3	10	1	15	78	1	0.1	1.2	0.3	0.74
21371952	RPR 9	3	325	30 to 60	6.5	5.3	0.03	0.26	15	4.3	3.1	0.7	0.1	0.1	8.2	0.9	0.04	1.4	12	1	8	83	1	0.1	1.2	0.3	0.43
21371953	RPR 9	3	325	60 to 100	6.6	5.4	0.05	0.43	5	8.0	14.0	2.4	0.4	0.1	24.9	1.7	0.03	0.6	10		11	230	1	0.0	0.7	1.5	0.24
21371954	RPR 8	4	326	0 to 5	6.5	5.8	0.10	1.38	18	10.0	4.4	2.7	0.0	0.0	17.1	0.2	0.43	2.3	6	7	170	110	5	2.3	1.4	0.8	2.70
21371955	RPR 8	4	326	5 to 15	7.0	6.2	0.06	0.83	18	9.0	3.3	1.0	0.1	0.0	13.3	0.4	0.16	2.7	5	1	72	83	2	0.3	1.2	0.7	1.30
21371956	RPR 8	4	326	15 to 30	7.5	6.6	0.05	0.69	13	6.5	2.8	0.6	0.0	0.0	9.9	0.4	0.12	2.3	9	0	47	62	1	0.1	0.8	0.6	0.68
21371957	RPR 8	4	326	30 to 60	7.9	6.9	0.08	0.69	16	12.0	16.0	1.6	0.5	0.0	30.1	1.6	0.05	0.8	9	1	36	140	1	0.0	2.1	1.4	0.34
21371958	RPR 8	4	326	60 to 100	9.1	8.3	0.29	2.49	36	21.0	30.0	1.6	2.2	0.0	54.8	4.0	0.07	0.7	7	0	45	190	2	0.1	1.6	3.5	0.10
21371924	RPR7	5	320	0 to 5	6.4	5.4	0.07	0.97	23	7.5	2.6	1.9	0.0	0.1	12.1	0.2	0.42	2.9	5	6	89	76	4	2.2	1.0	0.7	3.00
21371925	RPR7	5	320	5 to 15	6.7	6.3	0.17	2.35	14	10.0	2.0	2.0	0.0	0.0	14.0	0.3	0.60	5.0	3	46	42	72	4	0.3	1.2	0.7	1.50
21371926	RPR7	5	320	15 to 30	8.4	7.7	0.06	0.83	11	4.5	0.8	0.5	0.1	0.0	5.8	1.0	0.06	5.9	7	2	17	34	1	0.1	0.4	0.4	0.32
21371927	RPR7	5	320	30 to 60	8.4	7.4	0.10	0.86	5	14.0	16.0	1.5	1.5	0.0	33.0	4.6	0.02	0.9	12	1	8	110	2	0.0	1.8	1.6	0.23
21371928	RPR7	5	320	60 to 100	8.9	7.8	0.15	1.29	25	12.0	22.0	1.9	3.0	0.0	38.9	7.7	0.02	0.6	12	2	26	220	3	0.0	1.4	2.8	0.10
21371959	RPR 6	6	327	0 to 5	6.0	5.2	0.11	1.52	28	6.5	1.3	0.7	0.1	0.1	8.6	0.8	0.14	5.0	6	20	71	64	6	1.7	0.7	0.6	3.50
21371960	RPR 6	6	327	5 to 15	6.6	5.7	0.03	0.41	17	3.6	0.7	0.3	0.0	0.0	4.6	0.9	0.03	5.5	10	0	22	37	1	0.1	0.5	0.3	0.40
21371961	RPR 6	6	327	15 to 30	7.2	6.3	0.03	0.41	18	3.7	0.8	0.3	0.0	0.0	4.8	0.4	0.07	4.7	10	1	22	34	1	0.1	0.6	0.4	0.35
21371962	RPR 6	6	327	30 to 60	7.7	6.7	0.04	0.55	12	4.9	1.9	0.4	0.0	0.0	7.												

Lab ID	BHPB Site ID	Map ID Feb '14	Site Photo ID	Depth, cm	pH 1:5 water	pH CaCl2	EC 1:5 dS/m	ECe dS/m	Chloride mg/kg	Exchangeable cations, meq/100g					CEC	ESP	ESI	Ca/Mg	ASWAT score	NO3-N mg/kg	Colwell-P mg/kg	PBI	SO4-S mg/kg	DTPA-Zn mg/kg	DTPA-Cu mg/kg	Boron mg/kg	Org. C %
										Ca	Mg	K	Na	Al													
21442031	CMAB5	17	82	15 to 30	6.3	5.2	0.03	0.41	12	3.5	0.9	0.9	0.0	0.1	5.4	0.2	0.16	3.9	4	2	29	48	3	0.4	0.7	0.32	0.61
21442032	CMAB5	17	82	30 to 60	7.2	6.1	0.03	0.20	11	5.5	8.0	0.9	0.2	0.1	14.7	1.4	0.02	0.7	12	0	3	83	2	0.0	1.0	0.80	0.28
21442033	CMAB5	17	82	60 to 100	7.6	6.4	0.04	0.34	5	4.3	8.0	0.9	0.4	0.1	13.7	2.7	0.01	0.5	1	0	11	93	5	0.0	0.4	1.50	0.10
21371167	SF 1B	18	188	0 to 5	6	5.2	0.06	0.83	5	8.0	2.8	0.6	0.0	0.1	11.5	0.1	0.69	2.9	4	12	27	77	4	2.2	0.9	0.42	4.6
21371168	SF 1B	18	188	5 to 15	5.6	4.7	0.06	0.83	13	3.9	1.4	0.5	0.0	0.2	6.0	0.2	0.36	2.8	4	13	27	110	5	0.9	0.9	0.44	2.4
21371169	SF 1B	18	188	15 to 30	5.1	4	0.02	0.28	5	0.6	0.7	0.2	0.0	1.8	3.3	0.3	0.07	0.8	4	1	3	100	4	0.1	0.9	0.46	1.4
21371170	SF 1B	18	188	30 to 60	5.2	4	0.02	0.17	15	0.1	1.2	0.1	0.0	1.0	2.4	1.2	0.02	0.1	5	0	3	53	2	0.0	0.5	0.30	0.3
21371171	SF 1B	18	188	60 to 80	5	4.1	0.03	0.29	34	0.1	1.7	0.1	0.1	0.6	2.6	2.4	0.01	0.1	6	0	3	44	1	0.1	0.3	0.22	0.3
21371133	SF 2A	19	181	0 to 5	6.5	6	0.17	3.86	10	12.0	2.6	1.0	0.0	0.0	15.6	0.1	2.65	4.6	4	44	76	64	9	1.5	0.6	1.20	3.6
21371134	SF 2A	19	181	5 to 15	5.5	4.6	0.05	1.14	5	3.4	1.5	0.6	0.0	0.2	5.7	0.2	0.28	2.3	4	9	28	88	4	0.3	0.9	0.47	1.5
21371135	SF 2A	19	181	15 to 30	6.7	5.4	0.02	0.45	5	2.9	2.2	0.4	0.0	0.1	5.6	0.2	0.11	1.3	7	1	10	50	1	0.0	0.8	0.31	0.3
21371136	SF 2A	19	181	30 to 60	8	6.8	0.02	0.17	5	5.5	3.0	0.7	0.0	0.0	9.2	0.4	0.05	1.8	8	0	8	55	1	0.0	0.6	0.53	0.2
21442044	CMAB6a	20	85	0 to 5	6.7	6.1	0.19	1.81	11	13.0	3.3	2.3	0.1	0.0	18.7	0.4	0.51	3.9	4	44	210	92	8	6.0	1.0	0.89	4.90
21442045	CMAB6a	20	85	5 to 15	6.9	6.0	0.11	1.05	14	10.0	3.0	2.8	0.0	0.0	15.8	0.1	1.74	3.3	4	22	160	99	4	1.6	1.2	0.78	2.10
21442046	CMAB6a	20	85	15 to 30	7.4	6.3	0.06	0.52	14	8.0	1.9	3.3	0.0	0.0	13.2	0.1	0.79	4.2	13	3	52	110	1	0.2	1.3	0.66	0.78
21442047	CMAB6a	20	85	30 to 60	7.9	6.8	0.05	0.43	11	8.0	2.9	2.1	0.0	0.0	13.0	0.2	0.22	2.8	11	1	45	92	1	0.1	0.8	0.63	0.29
21442048	CMAB6a	20	85	60 to 100	8.2	7.3	0.07	0.60	5	16.0	8.1	2.0	0.1	0.0	26.2	0.3	0.26	2.0	6	1	9	130	3	0.0	0.7	1.80	0.26
21442024	CMAB7	21	81	0 to 5	6.2	5.6	0.15	2.07	16	12.0	4.1	2.4	0.1	0.1	18.7	0.3	0.56	2.9	5	32	160	79	5	16.0	1.1	1.20	4.80
21442025	CMAB7	21	81	5 to 15	6.6	5.6	0.06	0.83	23	9.5	2.3	1.9	0.1	0.1	13.9	0.4	0.17	4.1	7	2	110	88	2	1.4	1.3	0.68	1.70
21442026	CMAB7	21	81	15 to 30	7.2	6.3	0.05	0.43	15	9.5	2.3	1.1	0.1	0.0	13.0	0.5	0.09	4.1	8	1	72	73	2	0.3	1.4	0.61	0.76
21442027	CMAB7	21	81	30 to 60	7.5	6.4	0.03	0.26	11	7.0	2.6	0.8	0.1	0.1	10.6	1.0	0.03	2.7	11	1	31	59	2	0.1	1.3	0.35	0.21
21442028	CMAB7	21	81	60 to 100	7.6	6.6	0.04	0.34	18	7.0	2.3	0.8	0.1	0.1	10.2	0.9	0.05	3.0	11	1	33	52	2	0.1	1.0	0.38	0.24
21442019	CMAB9	22	80	0 to 5	6.3	5.8	0.22	3.04	13	14.0	3.5	2.4	0.1	0.1	20.1	0.4	0.55	4.0	2	71	130	97	11	17.0	1.8	0.91	5.10
21442020	CMAB9	22	80	5 to 15	6.3	5.4	0.08	1.10	5	7.0	2.4	1.9	0.1	0.1	11.5	0.4	0.18	2.9	0	15	100	120	3	1.0	1.5	0.51	1.80
21442021	CMAB9	22	80	15 to 30	6.3	5.4	0.06	0.52	17	7.0	2.4	1.8	0.0	0.1	11.3	0.4	0.17	2.9	3	8	63	140	2	0.3	1.9	0.59	1.40
21442022	CMAB9	22	80	30 to 60	6.5	5.6	0.04	0.34	16	7.5	3.0	1.2	0.1	0.0	11.8	0.5	0.08	2.5	3	3	27	170	2	0.1	1.1	0.55	0.62
21442023	CMAB9	22	80	60 to 100	7.3	6.5	0.05	0.43	5	9.0	5.8	0.9	0.1	0.1	15.8	0.6	0.09	1.6	2	2	20	220	4	0.0	0.5	1.10	0.32
21442059	CMBAB8	23	88	0 to 5	6.6	5.9	0.15	1.01	16	14.0	12.0	2.6	0.2	0.0	28.8	0.5	0.29	1.2	2	17	110	89	7	1.1	2.1	0.99	3.00
21442060	CMBAB8	23	88	5 to 15	7.3	6.5	0.10	0.67	12	18.0	13.0	1.5	0.2	0.0	32.7	0.5	0.19	1.4	0	8	52	96	3	0.3	1.9	0.99	1.60
21442061	CMBAB8	23	88	15 to 30	8.7	8.0	0.20	1.34	42	26.0	16.0	0.6	0.7	0.0	43.3	1.5	0.13	1.6	0	2	8	120	2	0.1	1.3	0.92	0.72
21442062	CMBAB8	23</																									

Lab ID	BHPB Site ID	Map ID Feb '14	Site Photo ID	Depth, cm	pH 1:5 water	pH CaCl2	EC 1:5 dS/m	ECe dS/m	Chloride mg/kg	Exchangeable cations, meq/100g					CEC	ESP	ESI	Ca/Mg	ASWAT score	NO3-N mg/kg	Colwell-P mg/kg	PBI	SO4-S mg/kg	DTPA-Zn mg/kg	DTPA-Cu mg/kg	Boron mg/kg	Org. C %
										Ca	Mg	K	Na	Al													
21371120	SF 9	34	178	15 to 30	7.1	6	0.02	0.19	5	5.5	1.8	0.6	0.0	0.0	7.9	0.4	0.05	3.1	8	1	3	64	1	0.1	1.0	0.30	0.6
21371121	SF 9	34	178	40 to 60	7.6	6.4	0.02	0.17	5	4.8	1.8	0.5	0.0	0.0	7.1	0.4	0.05	2.7	6	0	6	71	1	0.1	0.5	0.40	0.2
21371122	SF 9	34	178	60 to 100	8.1	7	0.03	0.26	5	8.0	3.3	0.9	0.1	0.0	12.2	0.5	0.06	2.4	4	0	14	140	1	0.0	0.4	1.00	
21441982	CMAB14	35	73	0 to 5	6.7	6.1	0.17	2.35	5	7.5	2.1	2.1	0.0	0.0	11.7	0.3	0.66	3.6	4	46	83	72	7	4.5	0.9	0.48	2.70
21441983	CMAB14	35	73	5 to 15	6.1	5.1	0.03	0.41	5	5.0	1.1	0.8	0.0	0.1	7.0	0.1	0.21	4.6	2	3	24	70	2	0.4	1.5	0.37	1.00
21441984	CMAB14	35	73	15 to 30	6.6	5.6	0.02	0.17	5	4.8	1.2	0.6	0.0	0.0	6.6	0.2	0.13	4.0	13	2	11	51	1	0.1	1.3	0.27	0.48
21441985	CMAB14	35	73	30 to 60	7.3	6.3	0.02	0.17	5	4.4	1.3	0.3	0.0	0.1	6.1	0.2	0.12	3.4	13	2	7	45	1	0.1	0.9	0.24	0.20
21441986	CMAB14	35	73	60 to 100	8.0	6.9	0.02	0.17	5	5.0	1.8	0.3	0.1	0.0	7.1	0.7	0.03	2.8	9	1	3	50	1	0.0	0.5	0.32	0.10
21441977	CMAB15	36	72	0 to 5	6.5	5.9	0.10	0.86	5	7.5	1.7	0.8	0.0	0.0	10.1	0.1	1.01	4.4	4	30	39	36	6	3.4	0.4	0.53	2.20
21441978	CMAB15	36	72	5 to 15	6.4	5.4	0.05	0.43	5	4.6	1.0	0.7	0.0	0.1	6.4	0.2	0.32	4.7	4	6	14	38	2	0.6	0.4	0.26	1.10
21441979	CMAB15	36	72	15 to 30	6.9	5.9	0.03	0.41	13	3.5	0.6	0.5	0.0	0.0	4.6	0.2	0.14	6.0	6	2	3	32	1	0.1	0.4	0.20	0.42
21441980	CMAB15	36	72	30 to 60	7.4	6.4	0.02	0.17	15	3.3	0.9	0.4	0.0	0.0	4.6	0.2	0.09	3.6	11	2	3	35	1	0.1	0.4	0.28	0.19
21441981	CMAB15	36	72	60 to 100	8.0	6.9	0.03	0.26	5	5.5	2.4	0.5	0.0	0.0	8.5	0.4	0.08	2.3	14	1	3	64	1	0.0	0.4	0.53	0.16
21371969	CMAB 28A	37	329	0 to 5	7.6	6.7	0.14	1.20	18	17.0	14.0	2.2	0.7	0.0	33.9	2.2	0.06	1.2	12	3	130	150	4	1.4	2.8	1.0	1.90
21371970	CMAB 28A	37	329	5 to 15	8.2	7.2	0.12	1.03	15	21.0	17.0	1.5	1.6	0.0	41.1	3.9	0.03	1.2	14	1	88	150	2	0.6	2.5	1.3	1.00
21371971	CMAB 28A	37	329	15 to 30	8.4	7.3	0.12	1.03	18	20.0	17.0	1.2	2.0	0.0	40.2	5.0	0.02	1.2	14	0	52	140	3	0.3	2.5	1.2	0.99
21371972	CMAB 28A	37	329	30 to 60	9.1	8.3	0.35	2.63	25	26.0	26.0	1.0	4.8	0.0	57.8	8.3	0.04	1.0	14	0	24	150	8	0.1	2.2	2.3	0.63
21371973	CMAB 28A	37	329	60 to 100	9.5	8.6	0.44	3.30	72	21.0	23.0	0.8	5.7	0.0	50.5	11.3	0.04	0.9	14	0	32	130	13	0.1	1.8	3.9	0.34
21371974	CMAB 28A	37	329	200	9.6	8.8	0.58	4.99	230	18.0	19.0	0.6	7.8	0.0	45.4	17.2	0.03	1.0	14	0	29	80	63	0.1	0.8	1.7	0.10
21372376	CMAB 28A	37	329	300	9.4	8.7	0.78	6.71	660	12.0	12.0	0.4	6.5	0.0	30.9	21.1	0.04	1.0	2	1	21	88	45	0.1	0.4	0.9	0.10
21441763	JBS 1	38	26	0 to 5	5.8	5.1	0.20	1.72	21	9.0	4.0	3.5	0.2	0.1	16.8	1.4	0.15	2.3	8	44	410	130	17	8.9	1.6	1.10	3.10
21441764	JBS 1	38	26	5 to 15	6.0	5.2	0.17	1.46	23	8.5	4.6	2.7	0.4	0.1	16.3	2.7	0.06	1.9	7	33	380	130	11	7.3	1.9	1.00	2.30
21441765	JBS 1	38	26	15 to 30	7.8	6.8	0.15	0.87	15	11.0	25.0	2.0	1.7	0.0	39.7	4.3	0.04	0.4	13	19	20	110	5	0.2	2.0	1.50	0.67
21441766	JBS 1	38	26	30 to 60	8.8	8.1	0.38	2.20	22	16.0	34.0	0.7	3.4	0.0	54.1	6.3	0.06	0.5	14	16	3	130	13	0.1	1.7	3.30	0.42
21441767	JBS 1	38	26	60 to 100	9.4	8.6	0.55	4.13	120	18.0	40.0	0.8	7.4	0.0	66.2	11.2	0.05	0.5	11	15	24	150	52	0.1	1.2	4.00	0.10
21441768	JBS 1	38	26	200	9.0	8.4	0.89	6.68	630	14.0	36.0	1.1	7.4	0.0	58.5	12.7	0.07	0.4	1	27	32	140	89	0.2	0.8	3.60	0.10
21441769	JBS 1	38	26	300	8.5	8.0	1.21	9.08	1500	3.3	24.0	0.8	7.0	0.1	35.2	19.9	0.06	0.1	2	9	72	220	130	0.1	0.6	4.60	0.10
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21371157	SF 10A	40	186	0 to 5	6.1	5.6	0.24	3.31	30	14.0	6.0	1.2	0.1	0.0	21.3	0.2	1.02	2.3		80	19	74</					

Lab ID	BHPB Site ID	Map ID Feb '14	Site Photo ID	Depth, cm	pH 1:5 water	pH CaCl2	EC 1:5 dS/m	ECe dS/m	Chloride mg/kg	Exchangeable cations, meq/100g					CEC	ESP	ESI	Ca/Mg	ASWAT score	NO3-N mg/kg	Colwell-P mg/kg	PBI	SO4-S mg/kg	DTPA-Zn mg/kg	DTPA-Cu mg/kg	Boron mg/kg	Org. C %
										Ca	Mg	K	Na	Al													
21441778	JBS 7	49	29	5 to 15	6.2	5.4	0.09	0.77	10	8.0	3.3	2.0	0.1	0.1	13.5	0.4	0.24	2.4	7	16	270	93	4	3.4	1.9	0.63	1.20
21441779	JBS 7	49	29	15 to 30	6.9	6.0	0.07	0.60	11	7.5	4.0	1.8	0.0	0.0	13.3	0.1	0.93	1.9	1	9	130	62	2	0.6	1.5	0.44	0.64
21441780	JBS 7	49	29	30 to 60	7.6	6.7	0.07	0.60	5	7.5	5.6	1.6	0.0	0.0	14.7	0.3	0.26	1.3	1	9	40	88	5	0.1	0.8	0.73	0.23
21441781	JBS 7	49	29	60 to 100	7.8	7.2	0.18	1.55	5	15.0	17.0	0.9	0.3	0.0	33.2	0.9	0.21	0.9	0	14	3	270	44	0.0	0.4	2.20	0.48
21442101	CMADV 1	50	97	0 to 5	6.4	5.4	0.05	0.43	10	6.5	1.7	1.0	0.1	0.1	9.3	0.8	0.07	3.8	4	11	42	100	3	0.7	1.1	0.40	2.50
21442102	CMADV 1	50	97	5 to 15	5.4	4.1	0.02	0.17	5	1.5	1.6	0.6	0.0	1.4	5.1	0.2	0.10	0.9	4	3	33	140	2	0.1	1.4	0.38	1.10
21442103	CMADV 1	50	97	15 to 30	5.7	4.5	0.03	0.26	5	2.3	3.1	0.5	0.1	0.6	6.5	0.9	0.03	0.7	7	2	13	120	2	0.1	1.3	0.39	0.91
21442104	CMADV 1	50	97	30 to 50	5.3	4.0	0.03	0.26	10	1.1	7.2	0.3	0.3	1.8	10.7	2.4	0.01	0.2	5	2	12	170	3	0.0	0.9	0.62	0.54
21442105	CMADV 1	50	97	50 to 80	6.3	5.0	0.03	0.26	13	4.3	8.1	0.6	0.4	0.1	13.5	2.6	0.01	0.5	4	1	42	210	1	0.0	0.6	0.83	0.28
21442095	CMADV 2	51	96	0 to 5	5.7	4.9	0.12	1.03	13	7.0	2.6	1.2	0.1	0.1	11.0	0.6	0.22	2.7	6	40	96	89	5	4.7	0.8	0.82	5.40
21442096	CMADV 2	51	96	5 to 15	5.5	4.8	0.16	1.38	14	8.5	2.9	1.3	0.1	0.1	12.9	0.4	0.41	2.9	4	52	98	82	7	7.5	0.9	0.87	6.40
21442097	CMADV 2	51	96	15 to 30	6.0	4.9	0.03	0.26	10	2.9	1.4	0.3	0.0	0.1	4.8	0.6	0.05	2.1	9	5	18	50	2	0.3	0.5	0.47	1.10
21442098	CMADV 2	51	96	30 to 40	6.4	5.0	0.02	0.45	5	0.9	0.8	0.2	0.0	0.1	2.0	2.0	0.01	1.1	14	2	10	22	1	0.1	0.2	0.18	0.26
21442099	CMADV 2	51	96	40 to 60	7.3	6.2	0.09	0.60	20	5.5	17.0	0.5	1.2	0.0	24.2	5.0	0.02	0.3	8	1	8	260	3	0.0	0.6	1.90	0.34
21442100	CMADV 2	51	96	60 to 80	7.4	6.2	0.09	0.77	41	4.1	16.0	0.5	1.3	0.0	21.9	5.9	0.02	0.3	6	1	17	290	3	0.0	0.5	1.90	0.16
21371092	CMADV 10a	52	172	0 to 5	5.3	4.5	0.11	1.52	10	2.5	1.1	0.9	0.0	0.2	4.7	0.2	0.52	2.3	4	45	49	64	5	2.2	0.8	0.33	2.0
21371093	CMADV 10a	52	172	5 to 15	5.1	4.3	0.06	0.83	11	2.0	0.6	0.6	0.0	0.5	3.7	0.3	0.22	3.4	4	23	15	70	4	0.5	0.9	0.36	1.1
21371094	CMADV 10a	52	172	15 to 30	5.7	4.8	0.06	0.52	5	3.3	0.9	0.4	0.0	0.1	4.7	0.6	0.09	3.6	4	26	9	37	2	0.1	0.6	0.33	0.5
21371095	CMADV 10a	52	172	30 to 60	6.9	6.1	0.06	0.52	5	8.0	4.0	0.5	0.1	0.0	12.6	0.9	0.07	2.0	8	14	15	130	3	0.0	1.6	0.72	0.3
21371096	CMADV 10a	52	172	60 to 100	6.7	5.8	0.06	0.52	5	6.5	6.1	0.4	0.2	0.0	13.1	1.3	0.05	1.1	2	6	33	200	13	0.0	1.2	0.74	0.2
21442064	CMADV6	53	89	0 to 5	6.2	5.4	0.07	0.97	13	6.0	1.4	0.6	0.0	0.1	8.1	0.1	0.56	4.3	4	18	42	36	3	3.3	0.4	0.36	2.50
21442065	CMADV6	53	89	5 to 15	6.6	5.6	0.04	0.55	15	4.3	0.9	0.6	0.0	0.0	5.8	0.2	0.23	4.7	4	4	49	39	2	0.3	0.4	0.40	1.30
21442066	CMADV6	53	89	15 to 30	7.2	6.1	0.02	0.45	12	1.6	0.3	0.3	0.0	0.0	2.2	0.5	0.04	5.3	14	1	16	19	1	0.1	0.1	0.17	0.18
21442067	CMADV6	53	89	30 to 50	7.5	6.5	0.02	0.45	5	1.6	0.7	0.2	0.0	0.0	2.5	0.4	0.05	2.4	16	1	6	17	1	0.1	0.3	0.27	0.10
21442068	CMADV6	53	89	50 to 70	7.6	6.7	0.04	0.34	5	5.0	4.4	0.5	0.1	0.0	10.0	0.7	0.06	1.1	5	0	16	110	2	0.0	0.7	1.70	0.10
21442069	CMADV6	53	89	70 to 100	7.9	6.9	0.04	0.38	5	4.1	4.8	0.5	0.1	0.0	9.5	1.1	0.04	0.9	7	0	14	88	3	0.0	0.5	1.60	0.10
21371108	SF 14a	54	176	0 to 5	6.5	5.7	0.06	0.57	5	10.0	2.5	0.8	0.0	0.0	13.3	0.2	0.40	4.0	7	9	14	69	5	1.3	0.8	0.58	3.3
21371109	SF 14a	54	176	5 to 15	6	5	0.03	0.29	5	9.0	2.4	0.3	0.0	0.1	11.8	0.1	0.35	3.8	4	1	5	75	2	0.4	1.2	0.36	2.8
21371110	SF 14a	54	176	15 to 30	6.2	5.1	0.02	0.17	5	6.5	2.8	0.2	0.0	0.1	9.6	0.4	0.05	2.3	4	1	3	88	1	0.1	1.0	0.30	0.9
21371111	SF 14a	54	176	40 to 60	5.8	4.4	0.01	0.09	5	3.2	4.4	0.2	0.1	0.4	8.3	1.1	0.01	0.7	2	1	7	150	1	0.1	0.6	0.54	0.6
21371112	SF 14a	54	176	60 to 90	5.7	4.2	0.01	0.09	12	1.8	4.5	0.															

Lab ID	BHPB Site ID	Map ID Feb '14	Site Photo ID	Depth, cm	pH 1:5 water	pH CaCl2	EC 1:5 dS/m	ECe dS/m	Chloride mg/kg	Exchangeable cations, meq/100g					CEC	ESP	ESI	Ca/Mg	ASWAT score	NO3-N mg/kg	Colwell-P mg/kg	PBI	SO4-S mg/kg	DTPA-Zn mg/kg	DTPA-Cu mg/kg	Boron mg/kg	Org. C %
										Ca	Mg	K	Na	Al													
21442090	CMADV15a	64	95	0 to 5	5.9	5.1	0.10	1.38	12	7.5	2.3	0.9	0.0	0.1	10.8	0.1	1.08	3.3	2	32	31	48	4	4.1	0.7	0.51	4.30
21442091	CMADV15a	64	95	5 to 15	6.0	4.8	0.05	0.69	12	2.7	0.9	0.9	0.0	0.1	4.6	0.2	0.23	3.0	5	6	12	57	3	0.5	0.7	0.34	1.70
21442092	CMADV15a	64	95	15 to 30	6.0	4.5	0.03	0.41	10	1.6	0.6	0.9	0.0	0.3	3.4	0.9	0.03	2.5	1	3	9	44	1	0.2	0.6	0.25	0.69
21442093	CMADV15a	64	95	30 to 60	6.5	5.4	0.04	0.34	5	4.4	3.5	0.8	0.1	0.1	8.9	1.0	0.04	1.3	11	2	7	100	1	0.1	0.9	0.60	0.45
21442094	CMADV15a	64	95	60 to 100	7.1	6.1	0.05	0.38	12	4.3	5.7	0.3	0.3	0.0	10.6	2.8	0.02	0.8	0	1	20	210	7	0.0	0.4	0.78	0.18
21442070	CMADV17	65	90	0 to 5	5.8	4.8	0.07	0.97	11	3.1	1.2	0.5	0.0	0.1	5.0	0.8	0.09	2.6	4	21	36	67	3	0.8	0.4	0.53	2.50
21442071	CMADV17	65	90	5 to 15	6.2	4.7	0.02	0.28	5	1.3	0.5	0.2	0.1	0.3	2.4	3.8	0.01	2.5	8	3	14	51	1	0.1	0.3	0.28	0.61
21442072	CMADV17	65	90	15 to 30	7.1	5.6	0.03	0.68	19	0.9	0.7	0.1	0.3	0.1	2.0	12.6	0.00	1.3	14	1	9	17	1	0.1	0.2	0.21	0.20
21442073	CMADV17	65	90	30 to 60	8.2	6.8	0.24	2.06	220	2.3	9.9	0.3	5.2	0.1	17.8	29.2	0.01	0.2	1	1	8	51	5	0.0	1.3	2.00	0.16
21442074	CMADV17	65	90	60 to 100	9.0	7.8	0.31	2.67	270	2.9	12.0	0.5	6.1	0.1	21.6	28.2	0.01	0.2	8	1	12	53	11	0.1	1.0	2.60	0.10
21371123	SF 15B	66	179	0 to 5	6.1	5.3	0.1	1.88	19	7.5	1.9	0.8	0.0	0.1	10.3	0.1	1.03	3.9	5	33	51	46	5	2.9	0.6	0.74	3.1
21371124	SF 15B	66	179	5 to 15	5.7	4.5	0.02	0.38	5	0.7	1.2	0.2	0.0	0.2	2.3	0.9	0.02	0.5	7	4	21	44	1	0.3	0.6	0.13	0.5
21371125	SF 15B	66	179	15 to 30	6	4.6	0.01	0.10	5	0.3	1.2	0.2	0.0	0.1	1.8	0.5	0.02	0.3	8	1	13	19	1	0.1	0.5	0.09	0.3
21371126	SF 15B	66	179	30 to 60	6.6	4.9		0.00	5	0.3	0.9	0.2	0.0	0.1	1.5	2.0		0.3	1	0	10	16	1	0.0	0.3	0.09	0.1
21371127	SF 15B	66	179	60 to 100	7.1	5.6	0.02	0.17	5	2.2	2.7	0.4	0.3	0.0	5.6	4.5	0.00	0.8	6	0	28	54	2	0.1	0.6	0.37	0.1
21441960	CMAB20	67	69	0 to 5	7.0	6.5	0.22	3.04	5	12.0	3.3	1.7	0.1	0.0	17.1	0.3	0.75	3.6	2	48	97	53	13	4.5	0.6	1.00	4.20
21441961	CMAB20	67	69	5 to 15	6.0	5.0	0.09	1.24	12	5.0	1.4	1.3	0.1	0.1	7.9	0.6	0.14	3.6	4	13	88	54	9	1.5	0.6	0.64	2.50
21441962	CMAB20	67	69	15 to 30	5.8	4.7	0.06	0.57	5	4.4	1.0	1.1	0.0	0.1	6.6	0.5	0.13	4.4	4	8	48	58	6	0.9	1.0	0.68	1.60
21441963	CMAB20	67	69	30 to 60	6.7	5.6	0.04	0.38	5	4.3	1.5	0.8	0.0	0.0	6.6	0.6	0.07	2.9	13	1	27	52	3	0.2	1.4	0.57	0.71
21441964	CMAB20	67	69	60 to 100	7.1	6.1	0.04	0.34	5	6.0	3.8	1.2	0.1	0.0	11.1	0.5	0.07	1.6	15	2	19	92	7	0.1	0.7	0.74	0.22
21441965	CMAB20	67	69	80 to 100	7.3	6.3	0.05	0.43	5	7.0	5.8	1.0	0.1	0.0	13.9	0.9	0.06	1.2	7	1	21	130	8	0.1	0.7	0.93	0.20
21371861	CMABFD2A	68	309	0 to 5	6.1	5.5	0.09	0.86	14	5.5	1.9	1.1	0.1	0.0	8.6	0.6	0.15	2.9	6	26	81	47	4	2.6	1.0	0.5	2.30
21371862	CMABFD2A	68	309	5 to 15	7.1	5.7	0.04	0.38	5	7.0	7.2	0.6	0.5	0.0	15.3	3.1	0.01	1.0	15	0	6	49	1	0.1	1.3	0.7	0.28
21371863	CMABFD2A	68	309	15 to 30	7.9	6.6	0.05	0.43	11	8.0	9.1	0.6	0.7	0.0	18.5	4.0	0.01	0.9	14	0	3	40	3	0.0	1.4	1.1	0.22
21371864	CMABFD2A	68	309	30 to 60	8.5	7.3	0.06	0.52	15	7.5	9.9	0.7	1.1	0.0	19.2	5.7	0.01	0.8	13	0	7	61	5	0.0	1.2	1.9	0.10
21371865	CMABFD2A	68	309	60 to 100	8.7	7.5	0.09	0.77	39	5.5	8.2	0.8	1.4	0.0	15.9	8.8	0.01	0.7	12	1	30	78	8	0.0	0.4	2.5	0.10
21371856	CMABFD1A	69	308	0 to 5	6.1	5.3	0.09	0.86	17	4.8	1.6	1.0	0.1	0.1	7.6	1.1	0.09	3.0	4	23	120	54	6	3.7	0.8	0.6	2.70
21371857	CMABFD1A	69	308	5 to 15	5.8	4.6	0.04	0.38	17	1.9	0.7	0.7	0.1	0.1	3.5	1.7	0.02	2.8	7	4	65	58	4	0.6	0.9	0.4	0.76
21371858	CMABFD1A	69	308	15 to 30	6.8	5.6	0.03	0.26	10	2.9	1.3	0.8	0.1	0.0	5.0	1.4	0.02	2.2	11	1	12	26	2	0.2	0.7	0.3	0.41
21371859	CMABFD1A	69	308	30 to 60	7.9	6.7	0.07	0.60	5	10.0	7.3	1.4	0.6	0.0	19.3	3.2	0.02	1.4	12	0	5	71	8	0.0	1.7	1.0	0.20
21371860	CMABFD1A	69	308	60 to 100	8.4	7.4	0.17	1.46	73	11.0	8.2	1.2	1.4	0.0	21.8	6.4	0.03	1.3	7	0	7	54	34	0.0	1.8	1.4	0.10
21441955	CMAB21	70	68	0 to 5	7.3	6.2	0.09	0.60	10	13.0	9.9	1.6	1.1	0.0	25.6	4.3	0.02	1.3	15	2	74	84	2	1.4	2.3	1.10	1.50
21441956	CMAB21	70	68	5 to 15	7.5	6.5	0.12	0.80	27	17.0	12.0	1.4	1.2	0.0	31.6	3.8	0.03	1.4	15	1	38	97	1	1.5	2.0	1.30	1.10
21441957	CMAB21	70	68	15 to 30	8.6	7.8	0.28	1.62	34	23.0	16.0	1.2	2.5	0.0	42.7	5.9	0.05	1.4	12	1	16	93	4	0.3	1.8	1.70	0.78
21441958	CMAB21	70	68	30 to 60	9.0	8.2	0.49	2.84	170	28.0	19.0	1.1	5.7	0.0	53.8	10.6	0.05	1.5	12	0	10	100	26	0.1	1.9	2.80	0.45
21441959	CMAB21	70	68	60 to 100	9.0	8.3	0.73	4.89	360	22.0	20.0	1.0	8.7	0.0	51.7	16.8	0.04	1.1	2	0	24	69	150	0.1	1.7	2.90	0.24
21371866	CMA B34	71	310	0 to 5	7.9	6.8	0.13	0.98	22	14.0	17.0	2.0	1.7	0.0	34.7	4.9	0.03	0.8	13	8	51	120	2	1.8	2.5	1.2	1.60
21371867	CMA B34	71	310	5 to 15	8.8	7.7	0.23	1.73	56	16.0	23.0	1.2	5.2	0.0	45.4	11.5	0.02	0.7	14	1	24	140	2	0.8	2.5	1.0	0.97
21371868	CMA B34	71	310	15 to 30	9.0	8.0	0.25	1.68	44	16.0	25.0	1.1	6.1	0.0	48.2	12.7	0.02	0.6	15	1	19	150	2	0.4	2.6	1.6	0.76
21371869	CMA B34	71	310	30 to 60	9.3	8.6	0.65	4.36	300	21.0	29.0	1.0	11.0	0.0	62.0	17.8	0.04	0.7	15	0	32	170	19	0.3	2.4	1.7	0.62
21371870	CMA B34	71	310	60 to 100	9.3	8.8	1.36	9.11	950	20.0	24.0	0.8	15.0	0.0	59.8	25.1	0.05	0.8	0	0	36	140	270	0.1	1.5	1.9	0.23
21371871	CMA B34	71	310	200	9.0	8.6	2.22	16.65	2200	14.0	24.0	0.6	18.0	0.0	56.6	31.8	0.07	0.6	0	0	25	82	550	0.2	1.2	1.3	0.17
21371872	CMA B34	71	310	300	9.1	8.7	2.02	15.15	1800	17.0	28.0	0.7	20.0	0.0	65.7	30.5	0.07	0.6	0	0	26	94	460	0.2	0.8	1.0	0.15
21372387	CMAB 33	72	332	0 to 5	7.6	6.7	0.13	0.98	17	19.0	21.0	2.0	0.9	0.0	42.9	2.1	0.06	0.9	12	3	84	140	4	1.8	2.6	0.8	1.70
21372388	CMAB 33	72	332	5 to 15	8.3	7.3	0.17	1.28	17	25.0	23.0	1.4	2.2	0.0	51.6	4.3	0.04	1.1	10	1	38	150	3	0.6	2.2	0.9	1.10
21372389	CMAB 33	72	332	15 to 30	8.7	7.5	0.12	0.90	12	21.0	23.0	0.9	2.7	0.0	47.6	5.7	0.02	0.9	12	0	30	150	2	0.3	2.3	1.1	0.90
21372390	CMAB 33	72	332	30 to 60	9.2	8.3	0.34	2.55	41	26.0	26.0	0.8	5.2	0.0	58.0	9.0	0.04	1.0	12	0	44	170	10	0.2	2.3	1.2	0.73
21372391	CMAB 33	72	332	60 to 80	9.3	8.4	0.44	3.30	74	29.0	29.0	0.8	7.4	0.0	66.2	11.2	0.04	1.0	13	1	50	160	35	0.2	2.0	1.6	0.56
21372392	CMAB 33	72	332	80 to 100	9.3	8.5	0.54	4.64	35	27.0	21.0	0.7	7.4	0.0	56.1	13.2	0.04	1.3	3	1	36	130	39	0.1	1.1	2.0	0.24
		73	32	0 to 5																							
		73	32	5 to 15																							
		73	32	15 to 30																							
		73	32	30 to 60																							
21441789	JBS 15	74	31	0 to 5																							

Lab ID	BHPB Site ID	Map ID Feb '14	Site Photo ID	Depth, cm	pH 1:5 water	pH CaCl2	EC 1:5 dS/m	ECe dS/m	Chloride mg/kg	Exchangeable cations, meq/100g					CEC	ESP	ESI	Ca/Mg	ASWAT score	NO3-N mg/kg	Colwell-P mg/kg	PBI	SO4-S mg/kg	DTPA-Zn mg/kg	DTPA-Cu mg/kg	Boron mg/kg	Org. C %
										Ca	Mg	K	Na	Al													
		80	171	15 to 30	6.6	5.5	0.05	0.43	14	5.5	2.6	1.1	0.1	0.0	9.3	1.0	0.05	2.1	8	1	27	95	8	0.1	1.2	0.8	0.89
		80	171	40 to 60	7.5	6.6	0.05	0.43	5	8.0	3.9	1.0	0.1	0.0	13.0	1.0	0.05	2.1	6	0	9	120	7	0.1	0.6	0.9	0.22
		80	171	60 to 90	8.1	7.2	0.07	0.60	10	10.0	4.1	1.2	0.1	0.0	15.4	0.7	0.11	2.4	8	0	6	120	5	0.1	0.4	1.2	0.32
21441945	CMAB22	81	66	0 to 5	6.6	5.7	0.10	1.38	5	4.9	2.0	1.1	0.0	0.0	8.0	0.3	0.40	2.5	3	17	24	39	5	2.5	0.7	0.60	2.50
21441946	CMAB22	81	66	5 to 15	6.5	5.6	0.05	0.69	5	2.0	1.4	0.5	0.0	0.0	3.9	0.3	0.19	1.4	4	4	25	37	3	0.6	0.5	0.36	1.10
21441947	CMAB22	81	66	15 to 30	6.1	4.8	0.02	0.19	5	1.2	0.8	0.3	0.0	0.1	2.5	0.4	0.05	1.5	6	1	6	35	1	0.1	0.7	0.25	0.35
21441948	CMAB22	81	66	30 to 60	6.1	4.9	0.02	0.17	5	1.4	2.1	0.4	0.0	0.1	4.0	1.0	0.02	0.7	4	1	7	62	3	0.1	0.9	0.45	0.29
21441949	CMAB22	81	66	60 to 100	5.8	4.6	0.02	0.17	5	0.4	2.6	0.1	0.1	0.2	3.3	1.5	0.01	0.1		0	27	57	6	0.1	0.4	0.43	0.10
21441950	CMAB23	82	67	0 to 5	6.6	5.8	0.08	1.10	5	9.5	3.5	1.6	0.1	0.0	14.7	0.4	0.20	2.7	5	11	19	92	4	1.7	1.5	0.78	2.80
21441951	CMAB23	82	67	5 to 15	6.5	5.7	0.09	1.24	5	9.5	3.6	1.6	0.1	0.0	14.8	0.5	0.19	2.6	4	12	20	89	5	2.0	1.6	0.80	2.60
21441952	CMAB23	82	67	15 to 30	6.9	5.9	0.05	0.43	5	8.5	3.3	1.7	0.0	0.0	13.5	0.2	0.23	2.6	5	3	12	130	2	0.3	1.5	0.69	1.30
21441953	CMAB23	82	67	30 to 60	7.5	6.4	0.04	0.34	5	6.5	4.7	1.1	0.1	0.0	12.4	0.7	0.06	1.4	8	1	9	140	2	0.1	1.0	0.76	0.62
21441954	CMAB23	82	67	60 to 100	7.8	7.0	0.07	0.60	43	5.5	5.1	0.6	0.2	0.0	11.4	1.3	0.05	1.1	1	1	7	96	1	0.0	0.3	0.91	0.24
21371890	CMA B36	83	314	0 to 5	7.9	7.4	0.40	2.68	17	27.0	24.0	2.6	1.8	0.0	55.4	3.3	0.12	1.1	12	7	82	170	5	1.5	2.4	1.0	1.70
21371891	CMA B36	83	314	5 to 15	8.3	7.7	0.35	2.35	110	31.0	25.0	1.6	2.1	0.0	59.7	3.5	0.10	1.2	6	3	29	190	2	0.5	2.2	1.0	0.97
21371892	CMA B36	83	314	15 to 30	8.9	8.1	0.29	1.94	5	34.0	28.0	1.2	3.2	0.0	66.4	4.8	0.06	1.2	7	1	13	210	1	0.2	2.0	1.3	0.60
21371893	CMA B36	83	314	30 to 60	9.2	8.4	0.39	2.61	24	29.0	32.0	1.0	6.1	0.0	68.1	9.0	0.04	0.9	15	0	10	190	1	0.1	2.0	2.8	0.49
21371894	CMA B36	83	3314	60 to 100	9.5	8.6	0.56	3.75	93	21.0	32.0	1.0	10.0	0.0	64.0	15.6	0.04	0.7	15	1	20	170	18	0.1	2.0	4.0	0.44
21371895	CMA B35	84	315	0 to 5	7.4	6.5	0.13	0.87	25	13.0	16.0	2.2	1.0	0.0	32.2	3.1	0.04	0.8	15	4	130	140	2	1.5	2.6	0.9	1.60
21371896	CMA B35	84	315	5 to 15	8.0	6.9	0.14	0.94	17	16.0	20.0	1.3	2.2	0.0	39.5	5.6	0.03	0.8	13	2	60	130	3	0.8	3.0	0.9	0.96
21371897	CMA B35	84	315	15 to 30	8.5	7.4	0.16	1.07	47	17.0	24.0	1.1	3.3	0.0	45.4	7.3	0.02	0.7	15	2	34	160	2	0.3	2.8	1.0	0.81
21371898	CMA B35	84	315	30 to 60	9.3	8.4	0.42	2.81	120	25.0	26.0	0.8	4.8	0.0	56.6	8.5	0.05	1.0	9	1	35	170	8	0.1	2.5	1.3	0.54
21371899	CMA B35	84	315	60 to 100	9.3	8.6	0.49	3.68	260	20.0	24.0	0.7	7.0	0.0	51.7	13.5	0.04	0.8	6	0	50	130	32	0.2	1.4	1.4	0.23
21441855	JBS 17a	85	46	0 to 5	7.2	6.8	0.81	6.08	520	19.0	27.0	5.5	2.4	0.0	53.9	4.5	0.18	0.7	2	60	450	250	44	3.3	5.0	1.10	2.60
21441856	JBS 17a	85	46	5 to 15	7.8	7.4	0.86	6.45	970	20.0	30.0	3.8	3.3	0.0	57.1	5.8	0.15	0.7	0	5	320	230	32	1.6	3.9	0.77	1.20
21441857	JBS 17a	85	46	15 to 30	8.2	7.9	1.40	9.38	1700	27.0	35.0	2.3	4.8	0.0	69.1	7.0	0.20	0.8	0	3	190	240	78	0.6	2.8	0.87	0.69
21441858	JBS 17a	85	46	30 to 60	8.3	8.1	2.85	19.10	3900	28.0	45.0	1.0	10.0	0.0	84.0	11.9	0.24	0.6	0	1	83	240	270	0.1	1.8	1.40	0.35
21441859	JBS 17a	85	46	60 to 100	8.4	8.3	3.58	23.99	4400	24.0	47.0	1.1	15.0	0.1	87.2	17.2	0.21	0.5	0	0	87	250	410	0.1	1.6	1.90	0.27
21441860	JBS 17a	85	46	200	9.2	8.7	1.46	9.78	1300	19.0	42.0	1.2	16.0	0.0	78.2	20.5	0.07	0.5	2	0	58	170	170	0.2	0.9	3.00	0.10
21441861	JBS 17a	85	46	300	8.8	8.5	2.11	14.14	2300	23.0	43.0	1.4	17.0	0.0	84.4	20.1	0.10	0.5	2	1	84	200	270	0.2			

Lab ID	BHPB Site ID	Map ID Feb '14	Site Photo ID	Depth, cm	pH 1:5 water	pH CaCl2	EC 1:5 dS/m	ECe dS/m	Chloride mg/kg	Exchangeable cations, meq/100g					CEC	ESP	ESI	Ca/Mg	ASWAT score	NO3-N mg/kg	Colwell-P mg/kg	PBI	SO4-S mg/kg	DTPA-Zn mg/kg	DTPA-Cu mg/kg	Boron mg/kg	Org. C %
										Ca	Mg	K	Na	Al													
21442134	CMADV 36a	96	104	15 to 30	5.3	4.5	0.06	1.36	5	1.8	0.6	0.3	0.0	0.2	2.9	0.4	0.17	3.1	4	21	5	32	1	0.0	0.5	0.16	0.29
21442135	CMADV 36a	96	104	30 to 60	6.8	5.8	0.04	0.34	5	7.0	5.2	0.4	0.2	0.0	12.7	1.3	0.03	1.4		4	5	150	8	0.0	0.4	0.86	0.10
21442136	CMADV 36a	96	104	60 to 100	7.6	6.6	0.05	0.43	5	7.5	5.8	0.7	0.3	0.0	14.3	2.1	0.02	1.3	3	2	7	180	5	0.0	0.2	2.20	0.10
		97	170	0 to 5																							
		97	170	5 to 15																							
		97	170	15 to 30																							
		97	170	30 to 50																							
21371675	PRD1	98	273	0 to 5	6.0	4.8	0.02	0.28	5	2.7	1.2	0.5	0.0	0.1	4.5	0.2	0.09	2.3	4	2	14	64	2	0.4	1.1	0.3	0.87
21371676	PRD1	98	273	5 to 15	6.2	5.0	0.03	0.41	5	3.3	1.4	0.7	0.0	0.1	5.5	0.2	0.16	2.4	4	3	15	69	1	0.5	1.2	0.4	1.10
21371677	PRD1	98	273	15 to 30	6.2	4.8	0.01	0.23	5	1.9	1.0	0.4	0.0	0.1	3.4	0.3	0.03	1.9	10	2	10	39	1	0.1	0.9	0.2	0.37
21371678	PRD1	98	273	30 to 60	6.5	5.1	0.01	0.23	10	1.4	1.0	0.2	0.0	0.1	2.7	0.4	0.03	1.4	11	1	6	25	5	0.0	0.5	0.2	0.23
21371679	PRD1	98	273	60 to 100	7.5	6.2	0.03	0.26	5	6.0	6.9	0.9	0.4	0.0	14.2	2.7	0.01	0.9	13	0	9	100	3	0.0	0.5	1.0	0.10
21371620	PRD2	99	272	0 to 5	6.2	5.1	0.04	0.55	17	3.4	1.3	0.6	0.0	0.1	5.4	0.2	0.22	2.6	5	2	16	45	4	0.5	1.3	0.4	1.60
21371621	PRD2	99	272	5 to 15	6.2	4.9	0.03	0.41	11	3.1	1.2	0.5	0.0	0.1	4.9	0.2	0.15	2.6	5	3	9	56	2	0.2	1.4	0.3	1.10
21371622	PRD2	99	272	15 to 30	6.3	5.0	0.02	0.28	12	2.8	1.2	0.4	0.0	0.1	4.5	0.2	0.09	2.3	5	1	7	56	2	0.1	1.4	0.3	0.60
21371623	PRD2	99	272	30 to 60	7.1	6.1	0.03	0.26	10	4.3	3.6	0.5	0.1	0.0	8.5	0.7	0.04	1.2	3	0	9	110	4	0.1	0.7	0.6	0.41
21371624	PRD2	99	272	60 to 100	7.8	6.6	0.05	0.43	10	3.3	5.3	0.5	0.2	0.0	9.3	2.2	0.02	0.6	14	0	11	140	8	0.1	0.4	0.8	0.23
21371615	PRD3	100	271	0 to 5	6.6	5.4	0.02	0.28	5	2.8	1.6	0.2	0.0	0.1	4.8	0.6	0.03	1.8	6	1	14	63	2	0.1	1.0	0.4	0.63
21371616	PRD3	100	271	5 to 15	6.5	5.6	0.04	0.55	18	6.0	2.1	0.7	0.0	0.0	8.8	0.1	0.35	2.9	6	3	18	71	3	0.5	1.4	0.6	1.80
21371617	PRD3	100	271	15 to 30	6.5	5.5	0.02	0.17	19	4.3	2.1	0.2	0.0	0.0	6.6	0.5	0.04	2.1	4	2	14	62	2	0.1	1.3	0.5	0.89
21371618	PRD3	100	271	30 to 60	7.0	5.8	0.02	0.28	13	2.5	2.1	0.1	0.1	0.0	4.8	1.0	0.02	1.2	8	1	12	45	2	0.0	0.7	0.3	0.34
21371619	PRD3	100	271	60 to 100	6.9	5.4	0.04	0.34	19	5.0	11.0	0.4	0.9	0.1	17.4	5.0	0.01	0.5	15		9	170	3	0.0	0.6	0.6	0.10
21441930	CMAWM 27	101	62	0 to 5	6.9	6.2	0.11	1.52	5	7.0	2.2	1.0	0.1	0.0	10.3	0.6	0.19	3.2	2	21	46	64	5	2.0	0.9	0.88	2.50
21441931	CMAWM 27	101	62	5 to 15	6.1	4.9	0.05	0.69	11	2.6	1.1	0.9	0.1	0.1	4.8	1.7	0.03	2.4	4	6	13	78	3	0.4	1.0	0.46	1.20
21441932	CMAWM 27	101	62	15 to 30	6.4	5.1	0.02	0.28	5	1.8	1.1	0.2	0.1	0.1	3.3	2.2	0.01	1.6	7	2	10	34	1	0.1	0.5	0.26	0.45
21441933	CMAWM 27	101	62	30 to 60	6.8	5.6	0.03	0.26	5	3.8	4.1	0.6	0.3	0.0	8.7	2.9	0.01	0.9	6	1	28	160	4	0.1	0.5	0.57	0.17
21441934	CMAWM 27	101	62	60 to 100	6.8	5.4	0.05	0.43	19	3.3	8.2	0.4	1.0	0.1	13.0	7.4	0.01	0.4	8	0	15	160	7	0.1	0.3	0.82	0.10
21371610	PFR10	102	270	0 to 5	6.6	6.0	0.11	1.52	5	10.0	3.3	1.9	0.0	0.0	15.2	0.2	0.56	3.0	8	4	190	83	6	5.2	1.7	1.0	3.50
21371611	PRD10	102	270	5 to 15	6.8	6.0	0.07	0.97	5	8.0	2.7	1.5	0.0	0.0	12.2	0.3	0.29	3.0	7	4	170	83	3	1.7	1.8	0.7	1.40
21371612	PRD10	102	270	15 to 30	7.1	6.3	0.06	0.52	31	7.0	3.1	1.3	0.0	0.0	11.4	0.3	0.23	2.3	11	2	180	83	2	0.3	1.4	0.7	0.81
21371613	PRD10	102	270	30 to 60	7.7	6.9	0.07	0.60	25	7.5	6.7	1.5	0.1	0.0	15.8	0.6	0.12	1.1	7	1	170	120	2	0.1	1.2	1.8	0.37
21371614	PRD10	102	270	60 to 100	8.6	7.8	0.09	0.77	16	5.0	5.8	2.0	0.1	0.0	12.9	0.8	0.12	0.9	7	1	18	180	9	0.1	0.3	3.4	0.10
21371696	PRD9	103	277	0 to 5	7.2	6.5	0.20	1.16	50	14.0	16																

Lab ID	BHPB Site ID	Map ID Feb '14	Site Photo ID	Depth, cm	pH 1:5 water	pH CaCl2	EC 1:5 dS/m	ECe dS/m	Chloride mg/kg	Exchangeable cations, meq/100g					CEC	ESP	ESI	Ca/Mg	ASWAT score	NO3-N mg/kg	Colwell-P mg/kg	PBI	SO4-S mg/kg	DTPA-Zn mg/kg	DTPA-Cu mg/kg	Boron mg/kg	Org. C %
										Ca	Mg	K	Na	Al													
21371688	PRD6	112	275	30 to 60	6.6	5.8	0.05	0.43	5	5.0	4.0	0.4	0.0	0.0	9.4	0.4	0.12	1.3	0	0	10	150	17	0.1	1.1	0.8	0.44
21371689	PRD6	112	275	60 to 100	7.1	6.1	0.05	0.43	5	2.8	5.7	0.3	0.2	0.0	9.0	2.0	0.02	0.5	2	1	11	140	14	0.1	0.3	0.7	0.10
21371690	PRD7	113	276	0 to 5	6.2	5.1	0.05	0.69	5	3.8	1.7	1.1	0.0	0.1	6.7	0.3	0.17	2.2	8	2	43	66	4	1.0	1.1	0.6	1.60
21371691	PRD7	113	276	5 to 15	5.9	4.7	0.05	0.69	5	1.7	1.0	1.0	0.0	0.1	3.8	0.3	0.19	1.7	9	7	26	62	5	0.2	1.0	0.5	0.75
21371692	PRD7	113	276	15 to 30	6.0	4.7	0.03	0.41	5	1.0	0.6	0.6	0.0	0.1	2.2	0.5	0.07	1.7	10	3	14	19	4	0.1	0.5	0.3	0.27
21371693	PRD7	113	276	30 to 60	6.5	5.1	0.02	0.28	5	0.7	0.4	0.4	0.0	0.1	1.6	1.2	0.02	1.7	14	2	9	18	2	0.0	0.3	0.2	0.10
21371694	PRD7	113	276	60 to 80	7.1	6.2	0.07	0.60	29	4.0	6.2	0.8	0.3	0.0	11.3	2.6	0.03	0.7	7	1	15	100	11	0.0	0.6	0.9	0.10
21371695	PRD7	113	276	80 to 100	6.1	5.2	0.09	0.86	78	2.2	4.9	0.4	0.4	0.1	7.9	4.6	0.02	0.5	2	1	28	69	16	0.0	0.5	0.7	0.10
21371878	PRD11B	114	312	0 to 5	6.3	5.5	0.14	1.05	22	9.5	11.0	2.1	0.6	0.0	23.2	2.6	0.05	0.9	11	22	210	130	8	1.4	2.5	1.0	3.80
21371879	PRD11B	114	312	5 to 15	8.1	7.4	0.23	1.73	23	15.0	16.0	1.4	1.5	0.0	33.9	4.4	0.05	0.9	11	3	16	120	5	0.2	1.9	1.3	1.30
21371880	PRD11B	114	312	15 to 30	9.1	8.3	0.30	2.25	42	23.0	20.0	1.0	3.1	0.0	47.1	6.6	0.05	1.2	9	1	8	150	5	0.1	1.7	1.7	0.72
21371881	PRD11B	114	312	30 to 60	9.4	8.6	0.52	3.90	280	18.0	20.0	0.9	6.5	0.0	45.4	14.3	0.04	0.9	13	1	11	120	24	0.1	1.7	3.5	0.62
21371882	PRD11B	114	312	60 to 100	9.4	8.7	1.20	10.32	1200	19.0	26.0	1.0	12.0	0.0	58.0	20.7	0.06	0.7	2	0	31	120	120	0.1	1.2	3.1	0.30
21371883	PRD11B	114	312	200	9.1	8.6	1.75	15.05	1800	15.0	28.0	0.8	17.0	0.0	60.8	28.0	0.06	0.5	2	3	34	79	270	0.2	1.2	1.1	0.17
21371884	PRD11B	114	312	300	9.1	8.6	1.80	15.48	1900	17.0	28.0	0.8	17.0	0.0	62.8	27.1	0.07	0.6	2	2	35	100	320	0.2	0.9	1.8	0.18
21441843	JBS 39a	115	44	0 to 5	6.0	5.5	0.26	2.24	23	18.0	16.0	5.0	0.1	0.0	39.1	0.2	1.27	1.1	4	42	1200	280	10	23.0	6.5	1.80	3.70
21441844	JBS 39a	115	44	5 to 15	6.1	5.4	0.18	1.55	15	16.0	21.0	3.6	0.2	0.1	40.9	0.4	0.46	0.8	5	16	1000	270	9	15.0	5.0	1.50	3.20
21441845	JBS 39a	115	44	15 to 30	7.5	6.8	0.20	1.50	5	16.0	35.0	2.3	0.6	0.0	53.9	1.1	0.19	0.5	5	4	500	180	10	2.5	2.8	2.00	1.20
21441846	JBS 39a	115	44	30 to 60	8.7	8.2	0.54	4.05	110	21.0	44.0	0.8	2.6	0.0	68.4	3.8	0.14	0.5	0	42	110	180	75	0.2	2.1	2.80	0.66
21441847	JBS 39a	115	44	60 to 100	8.6	8.4	1.92	16.51	1200	21.0	55.0	0.9	7.8	0.1	84.8	9.2	0.21	0.4	0	320	69	190	350	0.0	1.1	4.20	0.10
21441818	JBS 41	116	38	0 to 5	6.5	5.8	0.42	3.61	36	8.5	5.8	7.1	0.3	0.0	21.7	1.5	0.28	1.5	5	120	420	110	26	14.0	1.7	1.30	3.70
21441819	JBS 41	116	38	5 to 15	7.8	6.9	0.23	1.98	10	7.0	4.4	5.5	0.2	0.0	17.1	1.3	0.17	1.6	11	27	270	84	7	5.1	1.3	0.98	1.40
21441820	JBS 41	116	38	15 to 30	8.3	7.4	0.20	1.34	39	6.5	9.9	6.8	0.6	0.0	23.8	2.6	0.08	0.7	14	13	77	94	8	0.1	1.5	0.76	0.29
21441821	JBS 41	116	38	30 to 60	8.3	7.6	0.27	1.81	50	8.0	26.0	5.4	1.2	0.0	40.6	3.0	0.09	0.3	6	19	21	140	25	0.1	2.5	1.30	0.35
21441822	JBS 41	116	38	60 to 100	8.9	8.3	0.43	3.70	120	17.0	38.0	1.2	1.9	0.0	58.1	3.3	0.13	0.5	0	17	19	150	55	0.0	1.2	2.80	0.18
21441823	JBS 38a	117	39	0 to 5	6.7	6.1	0.15	2.07	14	7.5	2.2	1.1	0.0	0.0	10.8	0.1	1.62	3.4	4	45	57	36	7	3.2	0.5	0.57	2.40
21441824	JBS 38a	117	39	5 to 15	5.8	4.9	0.05	0.69	17	2.5	0.8	0.3	0.0	0.1	3.7	0.3	0.18	3.1	4	8	12	39	2	0.3	0.4	0.32	1.60
21441825	JBS 38a	117	39	15 to 30	6.0	4.8	0.02	0.45	5	1.1	0.6	0.2	0.0	0.1	2.0	0.5	0.04	1.8	1	2	12	21	1	0.1	0.3	0.21	0.52
21441826	JBS 38a	117	39	30 to 60	6.3	5.1	0.02	0.45	5	0.8	0.6	0.2	0.0	0.1	1.7	0.6	0.03	1.2	12	1	3	7	0.1	0.3	0.15	0.10	
21441827	JBS 38a	117	39	60 to 100	7.2	5.8	0.02	0.17	5	3.2	4.0	0.5	0.2	0.0													

Lab ID	BHPB Site ID	Map ID Feb '14	Site Photo ID	Depth, cm	pH 1:5 water	pH CaCl2	EC 1:5 dS/m	ECe dS/m	Chloride mg/kg	Exchangeable cations, meq/100g					CEC	ESP	ESI	Ca/Mg	ASWAT score	NO3-N mg/kg	Colwell-P mg/kg	PBI	SO4-S mg/kg	DTPA-Zn mg/kg	DTPA-Cu mg/kg	Boron mg/kg	Org. C %
										Ca	Mg	K	Na	Al													
		129	58	0 to 5																							
		129	58	5 to 15																							
		129	58	15 to 30																							
		129	58	30 to 60																							
		129	58	60 to 100																							
21441650	FUL 5	130	2	0 to 5	5.3	4.5	0.09	0.86	5	2.6	0.9	1.0	0.0	0.2	4.8	0.6	0.14	2.9	4	36	80	89	5	2.0	1.1	0.35	1.50
21441651	FUL 5	130	2	5 to 15	5.5	4.7	0.06	0.52	12	4.2	1.0	0.5	0.0	0.1	5.8	0.5	0.12	4.2	1	10	12	95	11	0.2	1.7	0.45	1.00
21441652	FUL 5	130	2	15 to 30	5.7	4.9	0.06	0.52	19	4.5	1.2	0.3	0.0	0.1	6.1	0.7	0.09	3.8	0	9	9	99	11	0.2	1.3	0.49	0.58
21441653	FUL 5	130	2	30 to 60	6.6	5.9	0.08	0.69	16	3.6	4.0	0.2	0.1	0.0	7.9	1.3	0.06	0.9	0	11	14	150	13	0.1	0.6	0.46	0.31
21441654	FUL 5	130	2	60 to 100	6.0	5.3	0.05	0.43	19	1.3	5.8	0.2	0.2	0.1	7.6	2.8	0.02	0.2	0	5	19	200	25	0.1	0.3	0.43	0.10
21371036	FUL 2a	131	158	0 to 5	5.6	4.6	0.06	1.36	10	2.3	0.7	0.6	0.0	0.1	3.7	0.3	0.22	3.4	6	19	50	41	3	2.0	0.4	0.18	1.5
21371037	FUL 2a	131	158	5 to 15	6.1	4.8	0.02	0.45	5	1.8	0.6	0.4	0.0	0.1	2.9	0.3	0.06	3.2	7	3	37	43	1	0.3	0.5	0.16	0.5
21371038	FUL 2a	131	158	15 to 30	6.8	5.5	0.02	0.45	5	3.0	0.7	0.4	0.0	0.0	4.1	0.2	0.08	4.5	6	2	33	38	1	0.3	0.6	0.19	0.5
21371039	FUL 2a	131	158	30 to 60	6.7	5.3	0.01	0.23	5	0.7	0.3	0.2	0.0	0.1	1.3	0.8	0.01	2.3	9	1	10	12	1	0.0	0.2	0.09	0.1
21371040	FUL 2a	131	158	60 to 70	7	5.6	0.01	0.23	11	0.4	0.4	0.2	0.1	0.0	1.0	5.0	0.00	1.2	12	0	3	7	1	0.0	0.2	0.08	0.1
21371041	FUL 3a	132	159	0 to 5	5.7	4.8	0.06	0.83	11	3.2	1.5	0.5	0.0	0.1	5.4	0.6	0.11	2.1	5	19	17	48	3	1.0	0.7	0.33	2.0
21371042	FUL 3a	132	159	5 to 15	5.6	4.4	0.03	0.41	5	1.0	1.0	0.4	0.0	0.3	2.8	0.4	0.08	1.0	5	4	8	53	3	0.4	0.9	0.19	1.1
21371043	FUL 3a	132	159	15 to 30	5.5	4.1	0.01	0.14	5	0.3	1.0	0.3	0.0	0.7	2.3	0.4	0.02	0.3	6	0	3	63	1	0.1	0.7	0.14	0.4
21371044	FUL 3a	132	159	30 to 60	6.2	4.9	0.01	0.09	11	2.4	4.3	0.4	0.1	0.1	7.3	0.7	0.01	0.6	1	0	7	120	1	0.0	0.4	0.28	0.2
21371045	FUL 3a	132	159	60 to 75	7.4	6	0.02	0.17	5	3.5	6.3	0.5	0.2	0.0	10.5	2.0	0.01	0.6	8	0	7	160	1	0.0	0.3	0.62	0.2
21371051	FUL 6a	133	161	0 to 5	5.9	5.1	0.1	1.38	11	5.5	1.7	0.8	0.0	0.1	8.1	0.1	0.81	3.2	3	33	20	53	4	6.3	0.9	0.31	3.0
21371052	FUL 6a	133	161	5 to 15	6.6	5.6	0.05	0.69	5	8.0	1.6	0.9	0.0	0.0	10.5	0.1	0.53	5.0	2	11	7	36	2	4.3	1.3	0.39	1.6
21371053	FUL 6a	133	161	15 to 30	7.1	6	0.02	0.17	10	3.8	0.7	0.2	0.0	0.0	4.8	0.2	0.10	5.2	9	3	6	30	1	0.2	0.6	0.23	0.4
21371054	FUL 6a	133	161	40 to 60	7.3	6.2	0.02	0.17	11	6.5	2.8	0.3	0.1	0.0	9.7	0.7	0.03	2.3	6	1	6	91	1	0.1	0.7	0.52	0.3
21371055	FUL 6a	133	161	60 to 100	7.2	6.1	0.04	0.34	10	5.0	6.3	0.4	0.2	0.0	11.9	1.7	0.02	0.8	3	0	11	170	8	0.0	0.3	0.58	0.1
21371046	FUL 4	134	160	0 to 5	6	5.3	0.11	1.05	12	7.5	1.8	0.8	0.0	0.1	10.2	0.1	1.13	4.2	3	34	27	43	6	2.9	1.1	0.45	3.1
21371047	FUL 4	134	160	5 to 15	6.6	5.8	0.05	0.48	19	6.5	1.0	0.5	0.0	0.0	8.1	0.4	0.13	6.6	3	10	15	59	2	0.5	1.4	0.42	1.1
21371048	FUL 4	134	160	15 to 30	7.4	6.4	0.03	0.26	5	5.5	1.6	0.3	0.0	0.0	7.5	0.5	0.06	3.4	3	4	10	57	1	0.1	1.5	0.42	0.7
21371049	FUL 4	134	160	30 to 60	6.8	5.6	0.03	0.26	19	3.9	3.5	0.3	0.1	0.0	7.8	1.8	0.02	1.1	4	1	12	100	1	0.1	0.9	0.33	0.4
21371050	FUL 4	134	160	60 to 100	6.8	5.4	0.03	0.26	14	3.1	7.5	0.4	0.5	0.1	11.6	4.1	0.01	0.4	4	1	13	160	2	0.2	0.3	0.31	0.2
21371568	FUL15B	135	262	0 to 5	5.9	5.0	0.08	1.10	15	7.5	2.3	1.9	0.0	0.1	11.8	0.1	0.94	3.3	7	3	94	62	6	7.1	1.0	0.4	4.30
21371569	FUL15B	135	262	5 to 15	6.7	5.8	0.08	1.10	5	5.5	2.2	1.7	0.0	0.0	9.4	0.1	0.75	2.5	8	6	140	56	2	1.6	1.4	0.5	1.50
21371570	FUL15B	135	262	15 to 30	7.1	6.2	0.06	0.52	5	3.8	2.1</																

Lab ID	BHPB Site ID	Map ID Feb '14	Site Photo ID	Depth, cm	pH 1:5 water	pH CaCl2	EC 1:5 dS/m	ECe dS/m	Chloride mg/kg	Exchangeable cations, meq/100g					CEC	ESP	ESI	Ca/Mg	ASWAT score	NO3-N mg/kg	Colwell-P mg/kg	PBI	SO4-S mg/kg	DTPA-Zn mg/kg	DTPA-Cu mg/kg	Boron mg/kg	Org. C %
										Ca	Mg	K	Na	Al													
21371590	FUL19A	145	266	15 to 30	8.9	7.8	0.25	1.68	67	21.0	26.0	1.0	5.7	0.0	53.7	10.6	0.02	0.8	14	3	12	170	4	0.1	2.4	1.6	1.00
21371591	FUL19A	145	266	30 to 60	9.1	8.4	0.76	5.09	340	24.0	26.0	0.9	9.6	0.0	60.5	15.9	0.05	0.9	5	1	58	150	120	0.2	2.4	2.0	0.91
21371592	FUL19A	145	266	60 to 100	8.4	8.2	2.51	16.82	600	37.0	26.0	1.0	14.0	0.0	78.0	18.0	0.14	1.4	2	0	46	150	1800	0.2	1.7	3.2	0.33
21371593	FUL19A	145	266	200	9.2	8.6	1.14	7.64	540	16.0	26.0	0.7	15.0	0.0	57.7	26.0	0.04	0.6	2	0	34	87	290	0.1	1.1	3.5	0.19
21371594	FUL19A	145	266	300	9.6	8.8	0.70	4.69	310	17.0	21.0	0.5	12.0	0.0	50.5	23.8	0.03	0.8	14	0	22	68	78	0.1	1.1	2.2	0.10
21371907	FTR1A	146	317	0 to 5	8.8	8.1	0.23	1.98	16	38.0	23.0	1.0	1.6	0.0	63.6	2.5	0.09	1.7	2	1	16	170	5	0.2	1.6	1.2	0.97
21371908	FTR1A	146	317	5 to 15	8.9	8.2	0.28	2.41	15	36.0	21.0	0.9	2.7	0.0	60.6	4.5	0.06	1.7	2	0	9	170	5	0.1	1.6	1.9	0.80
21371909	FTR1A	146	317	15 to 30	9.1	8.3	0.39	2.93	20	31.0	23.0	0.7	5.2	0.0	59.9	8.7	0.04	1.4	7	0	10	150	20	0.1	1.5	3.9	0.55
21371910	FTR1A	146	317	30 to 60	8.1	8.0	3.40	25.50	92	120.0	21.0	0.6	8.3	0.0	149.9	5.5	0.61	5.7	0	0	18	160	4600	0.1	1.3	5.1	0.34
21371911	FTR1A	146	317	60 to 100	8.5	8.3	2.28	17.10	280	24.0	33.0	0.7	12.0	0.0	69.7	17.2	0.13	0.7	0	0	30	130	1700	0.1	1.3	4.5	0.21
21441862	JBS 86a	147	47	0 to 5	6.4	5.7	0.26	2.15	37	10.0	4.8	4.9	0.2	0.0	19.9	1.1	0.25	2.1	4	49	900	200	14	55.0	1.9	1.20	4.60
21441863	JBS 86a	147	47	5 to 15	6.4	5.6	0.25	2.15	33	9.5	3.5	4.1	0.3	0.0	17.4	1.7	0.15	2.7	5	29	700	160	19	41.0	2.0	1.10	3.70
21441864	JBS 86a	147	47	15 to 30	7.2	6.3	0.16	1.38	21	5.0	2.0	2.6	0.2	0.0	9.8	1.8	0.09	2.5	11	5	310	95	10	1.8	1.1	1.10	0.79
21441865	JBS 86a	147	47	30 to 60	7.0	6.6	0.56	4.82	290	7.5	6.0	3.0	0.7	0.0	17.2	4.1	0.14	1.3	0	75	32	260	98	0.1	0.8	0.83	0.48
21441866	JBS 86a	147	47	60 to 100	6.5	6.3	0.73	6.28	340	7.0	6.3	0.9	0.8	0.1	15.0	5.2	0.14	1.1	0	140	9	210	200	0.1	0.2	0.54	0.19
21441868	JBS 51a	148	48	0 to 5	4.9	4.8	2.38	22.61	1500	6.5	3.9	3.4	2.7	0.1	16.6	16.3	0.15	1.7	2	380	590	140	330	28.0	2.1	0.97	2.10
21441869	JBS 51a	148	48	5 to 15	6.5	5.8	0.30	2.85	200	6.0	2.7	1.9	0.6	0.0	11.2	5.4	0.06	2.2	2	24	680	150	34	14.0	2.1	0.90	1.20
21441870	JBS 51a	148	48	15 to 30	8.0	7.4	0.26	2.47	190	3.5	2.6	1.4	0.5	0.0	8.0	6.0	0.04	1.4	4	13	280	78	31	0.8	0.8	0.70	0.23
21441871	JBS 51a	148	48	30 to 60	8.1	7.6	0.38	3.61	340	2.5	3.2	1.7	0.8	0.0	8.2	10.1	0.04	0.8	2	23	55	91	60	0.1	0.8	0.68	0.10
21441872	JBS 51a	148	48	60 to 100	7.1	6.8	1.13	9.72	1100	3.7	11.0	3.4	3.0	0.0	21.1	14.2	0.08	0.3	0	87	22	110	180	0.0	0.5	0.95	0.10
21441725	JBS 54	149	19	0 to 5	4.7	4.1	0.25	3.45	12	4.2	0.9	2.0	0.0	0.7	7.9	0.4	0.66	4.6	4	78	560	160	18	19.0	1.2	0.58	3.00
21441726	JBS 54	149	19	5 to 15	4.8	4.1	0.13	1.79	11	3.4	0.7	1.1	0.0	0.9	6.1	0.2	0.79	4.7	2	32	490	150	9	14.0	1.4	0.44	1.80
21441727	JBS 54	149	19	15 to 30	6.4	5.5	0.06	0.83	5	2.8	1.0	0.6	0.0	0.1	4.5	0.7	0.09	2.8	1	7	130	50	3	1.5	0.6	0.27	0.41
21441728	JBS 54	149	19	30 to 60	7.3	6.5	0.05	0.43	5	2.1	1.3	0.5	0.0	0.0	4.0	1.0	0.05	1.6	8	6	57	20	5	0.2	0.5	0.34	0.17
21441729	JBS 54	149	19	60 to 100	8.3	7.6	0.12	0.70	27	6.5	13.0	1.0	0.5	0.0	21.0	2.3	0.05	0.5	0	8	3	120	14	0.1	0.3	1.40	0.10
21441730	JBS 61a	150	20	0 to 5	4.9	4.3	0.26	2.47	5	4.8	1.2	1.7	0.0	0.2	7.9	0.1	2.05	4.0	4	95	360	83	18	18.0	1.1	0.57	2.10
21441731	JBS 61a	150	20	5 to 15	4.8	4.1	0.13	1.24	5	3.9	1.0	1.1	0.0	0.4	6.4	0.2	0.84	3.9	2	39	390	97	6	12.0	1.6	0.43	1.70
21441732	JBS 61a	150	20	15 to 30	6.8	5.9	0.08	0.69	31	5.0	2.8	1.2	0.0	0.0	9.0	0.1	0.72	1.8	8	9	210	75	4	0.9	0.9	0.54	0.50
21441733	JBS 61a	150	20	30 to 60	7.5	6.6	0.09	0.77	11	7.0	5.2	2.5	0.0	0.0	14.7	0.2	0.44	1.4	1	7	24	150	6	0.1	0.5	0.71	0.37
21441734	JBS 61a	150	20	60 to 100	7.6	6.9	0.11	0.64	5																		

Lab ID	BHPB Site ID	Map ID Feb '14	Site Photo ID	Depth, cm	pH 1:5 water	pH CaCl2	EC 1:5 dS/m	ECe dS/m	Chloride mg/kg	Exchangeable cations, meq/100g					CEC	ESP	ESI	Ca/Mg	ASWAT score	NO3-N mg/kg	Colwell-P mg/kg	PBI	SO4-S mg/kg	DTPA-Zn mg/kg	DTPA-Cu mg/kg	Boron mg/kg	Org. C %
										Ca	Mg	K	Na	Al													
21441874	JBS 52	161	49	5 to 15	6.9	6.2	0.14	1.93	46	8.0	2.0	1.6	0.0	0.0	11.6	0.1	1.63	4.0	4	16	280	83	5	12.0	1.0	0.57	2.50
21441875	JBS 52	161	49	15 to 30	6.9	5.8	0.07	0.60	5	3.7	1.4	1.5	0.0	0.0	6.6	0.2	0.46	2.6	7	1	190	61	1	3.2	0.9	0.50	0.68
21441876	JBS 52	161	49	30 to 60	7.6	6.5	0.06	0.52	5	4.0	2.3	2.0	0.1	0.0	8.4	0.6	0.10	1.7	1	1	70	82	1	0.1	0.7	0.73	0.19
21441877	JBS 52	161	49	60 to 100	7.5	6.6	0.08	0.69	5	9.0	8.2	1.8	0.4	0.0	19.4	2.2	0.04	1.1	8	0	39	180	11	0.0	0.4	0.98	0.30
21441720	JBS 57	162	18	0 to 5	5.0	4.6	0.51	4.85	33	6.0	1.4	2.6	0.0	0.1	10.2	0.4	1.29	4.3	4	180	510	150	41	25.0	1.3	0.71	3.00
21441721	JBS 57	162	18	5 to 15	5.9	5.1	0.11	1.05	5	5.5	2.1	1.5	0.0	0.1	9.2	0.1	1.01	2.6	7	19	350	110	6	5.8	1.4	0.62	0.78
21441722	JBS 57	162	18	15 to 30	7.4	6.6	0.10	0.86	5	6.5	3.9	1.7	0.0	0.0	12.1	0.1	1.21	1.7	7	12	200	88	5	0.6	0.9	0.64	0.32
21441723	JBS 57	162	18	30 to 60	8.2	7.4	0.12	1.03	13	8.5	4.9	1.9	0.1	0.0	15.4	0.6	0.21	1.7	2	10	30	180	13	0.1	0.5	0.95	0.20
21441724	JBS 57	162	18	60 to 100	8.0	7.6	0.42	3.61	150	15.0	11.0	1.5	1.1	0.0	28.6	3.9	0.11	1.4	0	33	24	500	81	0.0	0.2	2.40	0.10
21441685	JBS 63a	163	9	0 to 5	5.2	4.5	0.21	2.90	5	2.6	0.6	1.2	0.0	0.2	4.6	0.2	0.96	4.5	12	65	200	76	10	6.0	0.8	0.48	1.60
21441686	JBS 63a	163	9	5 to 15	5.1	4.2	0.06	0.83	5	2.2	0.5	0.7	0.0	0.6	4.0	0.3	0.24	4.6	3	11	130	74	7	2.8	1.2	0.43	0.71
21441687	JBS 63a	163	9	15 to 30	5.8	4.9	0.04	0.38	5	3.9	0.8	0.8	0.0	0.1	5.6	0.2	0.22	4.8	7	6	69	48	5	0.5	0.8	0.39	0.57
21441688	JBS 63a	163	9	30 to 60	7.1	6.2	0.03	0.29	5	4.2	1.8	0.9	0.0	0.0	6.9	0.1	0.21	2.3	6	4	11	51	3	0.1	0.5	0.43	0.20
21441689	JBS 63a	163	9	60 to 100	8.0	7.1	0.06	0.52	5	4.7	2.4	1.0	0.1	0.0	8.1	0.7	0.08	2.0	4	7	8	78	5	0.1	0.4	0.68	0.10
21441680	JBS 65	164	8	0 to 5	5.5	5.0	0.38	5.24	27	4.0	0.8	1.6	0.1	0.1	6.6	1.1	0.36	4.9	4	110	190	65	86	8.5	0.8	0.57	1.20
21441681	JBS 65	164	8	5 to 15	6.3	5.3	0.05	0.69	5	3.8	1.1	0.9	0.0	0.1	6.0	0.2	0.30	3.5	6	9	110	57	4	1.6	0.8	0.45	0.45
21441682	JBS 65	164	8	15 to 30	7.4	6.5	0.06	0.57	5	4.4	1.6	1.1	0.0	0.0	7.1	0.1	0.43	2.8	8	8	89	62	4	0.2	0.5	0.43	0.21
21441683	JBS 65	164	8	30 to 60	8.4	7.7	0.12	1.03	5	8.0	2.6	1.8	0.1	0.0	12.5	0.6	0.21	3.1	8	12	7	110	17	0.0	0.3	0.92	0.10
21441684	JBS 65	164	8	60 to 100	8.3	7.8	0.17	1.46	22	7.5	3.0	1.1	0.1	0.0	11.7	1.1	0.15	2.5	10	17	16	110	31	0.0	0.2	1.00	0.10
21441665	JBS 67	165	5	0 to 5	4.6	4.2	0.45	4.28	19	4.0	0.8	2.1	0.0	0.4	7.4	0.5	0.83	4.9	2	200	490	110	46	28.0	1.2	0.55	2.90
21441666	JBS 67	165	5	5 to 15	5.0	4.3	0.13	1.12	12	4.2	0.9	1.2	0.0	0.3	6.6	0.2	0.86	4.6	3	27	520	130	14	18.0	1.6	0.64	1.50
21441667	JBS 67	165	5	15 to 30	6.4	5.6	0.09	0.77	17	4.2	1.2	1.1	0.0	0.0	6.5	0.2	0.59	3.5	6	13	260	79	8	3.2	0.8	0.58	0.48
21441668	JBS 67	165	5	30 to 60	7.0	6.3	0.09	0.77	5	3.5	3.0	1.3	0.1	0.0	7.9	0.6	0.14	1.2	6	8	20	140	19	0.2	0.4	0.73	0.19
21441669	JBS 67	165	5	60 to 100	6.0	5.4	0.14	1.20	14	1.8	4.1	0.8	0.1	0.1	6.9	1.3	0.11	0.4	1	13	12	83	59	0.3	0.3	0.46	0.16
		166	167	0 to 5																							
		166	167	5 to 15																							
		166	167	15 to 30																							
		166	167	40 to 60																							
21441660	FUL 13	167	4	0 to 5	6.7	6.0	0.10	0.95	14	6.5	1.2	1.0	0.0	0.0	8.7	0.1	0.87	5.4	11	27	47	49	5	1.8	0.5	0.52	1.60
21441661	FUL 13	167	4	5 to 15	6.6	5.8	0.09	0.86	16	7.0	1.3	1.0	0.0	0.0	9.3	0.1	0.84	5.4	2	28	25	51	5	1.2	0.7	0.51	1.50
21441662	FUL 13	167	4	15 to 30	7.3	6.4	0.05	0.43	5	6.5	1.9	1.1	0.0	0.0	9.5	0.1	0.48	3.4	5	5	7	77	3	0.1	0.7	0.52	0.67
21441663	FUL 13	167	4	30 to 60	7.5	6.7	0.07	0.60	5	4.8	2.8	0.8	0.1	0.0	8.4	1.0	0.07										

Lab ID	BHPB Site ID	Map ID Feb '14	Site Photo ID	Depth, cm	pH 1:5 water	pH CaCl2	EC 1:5 dS/m	ECe dS/m	Chloride mg/kg	Exchangeable cations, meq/100g					CEC	ESP	ESI	Ca/Mg	ASWAT score	NO3-N mg/kg	Colwell-P mg/kg	PBI	SO4-S mg/kg	DTPA-Zn mg/kg	DTPA-Cu mg/kg	Boron mg/kg	Org. C %
										Ca	Mg	K	Na	Al													
21371405	HAN40A	178	229	60 to 100	8.1	7.2	0.05	0.48	5	9.0	2.3	0.6	0.1	0.0	12.0	0.5	0.10	3.9	3	0	12	130	7	0.0	0.3	0.46	0.1
21441700	JBS 75	179	13	0 to 5	4.8	4.2	0.18	1.71	12	2.9	0.6	1.2	0.0	0.6	5.3	0.2	0.95	5.0	4	72	300	110	11	10.0	1.3	0.51	1.60
21441701	JBS 75	179	13	5 to 15	4.9	4.1	0.08	0.76	10	2.6	0.5	1.0	0.0	0.9	5.0	0.2	0.40	5.1	3	20	240	110	5	5.5	1.8	0.51	0.98
21441702	JBS 75	179	13	15 to 30	6.9	6.0	0.05	0.48	5	5.5	1.5	1.0	0.0	0.0	8.0	0.1	0.40	3.7	7	4	95	69	3	0.4	0.7	0.48	0.34
21441703	JBS 75	179	13	30 to 60	8.5	7.8	0.11	0.95	17	8.0	1.6	0.9	0.0	0.0	10.6	0.1	1.16	5.0	1	5	12	120	4	0.0	0.3	1.10	0.16
21441704	JBS 75	179	13	60 to 100	8.4	7.8	0.10	0.86	5	9.5	2.8	0.8	0.0	0.0	13.1	0.2	0.44	3.4	1	4	21	280	9	0.0	0.1	0.70	0.10
21371396	HAN5	180	228	0 to 5	5.9	4.9	0.06	0.83	5	2.8	0.7	0.7	0.0	0.1	4.3	0.2	0.26	3.9	7	17	38	30	3	2.4	0.7	0.30	1.2
21371397	HAN5	180	228	5 to 15	5.9	4.9	0.04	0.55	5	3.5	0.9	0.7	0.0	0.1	5.2	0.2	0.21	3.8	7	7	45	38	5	2.2	1.0	0.46	1.2
21371398	HAN5	180	228	15 to 30	7.1	6.1	0.04	0.55	5	10.0	2.4	0.9	0.0	0.0	13.4	0.3	0.13	4.2	6	1	11	130	4	0.2	0.8	0.95	0.5
21371399	HAN5	180	228	30 to 60	7.8	6.8	0.04	0.34	20	11.0	2.2	0.6	0.1	0.0	13.8	0.5	0.08	5.0	1	1	11	230	4	0.0	0.5	0.82	0.3
21371400	HAN5	180	228	60 to 100	8.4	7.5	0.05	0.48	5	7.0	1.3	0.2	0.1	0.0	8.5	0.8	0.06	5.4	2	0	6	100	4	0.1	0.2	0.15	0.1
21441705	JBS 91	181	14	0 to 5	5.0	4.6	0.36	4.97	43	3.1	0.8	1.3	0.1	0.2	5.4	1.3	0.28	4.1	3	100	190	59	30	7.8	0.9	0.52	1.20
21441706	JBS 91	181	14	5 to 15	4.8	4.1	0.10	1.38	16	1.7	0.5	0.5	0.0	0.8	3.6	0.8	0.12	3.5	0	20	200	78	11	3.9	1.2	0.39	0.56
21441707	JBS 91	181	14	15 to 30	6.4	5.5	0.05	1.14	13	2.7	0.8	0.5	0.0	0.0	4.0	1.0	0.05	3.4	8	6	81	47	6	0.3	0.5	0.29	0.19
21441708	JBS 91	181	14	30 to 60	7.7	6.9	0.07	1.59	15	4.6	2.3	0.5	0.1	0.0	7.5	1.3	0.05	2.0	0	6	9	100	12	0.1	0.2	0.37	0.20
21441709	JBS 91	181	14	60 to 100	8.0	7.3	0.11	0.95	19	6.5	3.5	0.4	0.2	0.0	10.5	1.5	0.07	1.9	0	8	7	160	21	0.0	0.1	0.48	0.18
21371528	HAN58	182	254	0 to 5	7.8	6.8	0.24	1.61	10	18.0	33.0	2.7	3.7	0.0	57.4	6.4	0.04	0.5	14	0	210	250	19	1.3	3.1	1.70	1.1
21371529	HAN58	182	254	5 to 15	8.3	7.2	0.21	1.41	41	17.0	35.0	2.2	5.2	0.0	59.4	8.8	0.02	0.5	15	0	190	280	5	1.2	3.0	2.20	0.8
21371530	HAN 58	182	254	15 to 30	8.7	7.7	0.37	2.48	220	19.0	44.0	1.9	8.7	0.0	73.6	11.8	0.03	0.4	13	0	180	270	6	0.6	2.8	2.50	0.7
21371531	HAN 58	182	254	30 to 60	8.5	8.2	1.98	13.27	2800	18.0	50.0	1.8	17.0	0.0	86.8	19.6	0.10	0.4		0	180	280	120	0.2	2.7	3.90	0.5
21371532	HAN 58	182	254	60 to 100	8.4	8.3	3.69	24.72	6000	23.0	52.0	2.0	24.0	0.0	101.0	23.8	0.16	0.4		0	110	260	430	0.2	1.8	4.40	0.3
21371533	HAN 59A	183	255	0 to 5	7.3	6.5	0.18	1.21	43	15.0	32.0	3.0	1.9	0.0	51.9	3.7	0.05	0.5	13	3	210	220	6	1.0	3.6	1.10	1.6
21371534	HAN 59A	183	255	5 to 15	7.5	6.5	0.16	1.07	33	17.0	35.0	2.6	2.1	0.0	56.7	3.7	0.04	0.5	13	3	180	210	3	0.7	3.7	1.10	1.4
21371535	HAN 59A	183	255	15 to 30	8.5	7.5	0.25	1.68	140	18.0	42.0	1.8	5.2	0.0	67.0	7.8	0.03	0.4	11	1	110	230	4	0.4	2.9	1.60	0.6
21371536	HAN 59A	183	255	30 to 60	8.9	8.3	0.92	6.16	870	18.0	47.0	1.3	10.0	0.0	76.3	13.1	0.07	0.4	3	0	130	250	36	0.4	2.7	3.60	0.4
21371537	HAN 59A	183	255	60 to 100	8.7	8.4	2.39	17.93	3500	20.0	48.0	1.7	18.0	0.0	87.7	20.5	0.12	0.4		0	88	240	270	0.2	1.8	6.40	0.2
21371538	HAN 60A	184	256	0 to 5	5.7	4.8	0.07	0.60	22	8.5	7.6	1.9	0.2	0.1	18.3	0.8	0.09	1.1	6	0	90	180	9	1.6	3.1	0.85	2.0
21371539	HAN 60A	184	256	5 to 15	6	4.8	0.05	0.43	15	9.5	8.2	1.3	0.2	0.1	19.4	1.2	0.04	1.2	8	0	50	180	3	0.9	3.0	0.86	1.6
21371540	HAN 60A	184	256	15 to 30	6.6	5.6	0.06	0.45	21	17.0	16.0	0.7	0.4	0.0	34.1	1.2	0.05	1.1	6	0	10	260	3	0.1	2.4	0.92	1.1
21371541	HAN 60A	184	256	30 to 60	6.9	6	0.08	0.60	18	17.0	16.0	0.7	0.5	0.0	34.2												

Lab ID	BHPB Site ID	Map ID Feb '14	Site Photo ID	Depth, cm	pH 1:5 water	pH CaCl2	EC 1:5 dS/m	ECe dS/m	Chloride mg/kg	Exchangeable cations, meq/100g					CEC	ESP	ESI	Ca/Mg	ASWAT score	NO3-N mg/kg	Colwell-P mg/kg	PBI	SO4-S mg/kg	DTPA-Zn mg/kg	DTPA-Cu mg/kg	Boron mg/kg	Org. C %
										Ca	Mg	K	Na	Al													
21371549	HAN64	195	258	5 to 15	7.5	6.6	0.2	1.34	89	20.0	28.0	2.5	2.2	0.0	52.7	4.2	0.05	0.7	12	0	180	240	7	0.8	2.8	1.20	1.1
21371550	HAN64	195	258	15 to 30	7.8	7.1	0.49	3.28	450	20.0	29.0	1.9	4.0	0.0	54.9	7.3	0.07	0.7	3	0	150	240	19	0.3	2.6	1.50	0.8
21371551	HAN64	195	258	30 to 60	8.2	7.9	1.66	11.1	1800	23.0	34.0	1.4	8.7	0.0	67.1	13.0	0.13	0.7	1	0	140	260	200	0.2	2.4	3.3	0.64
21371552	HAN64	195	258	60 to 100	8.3	8.1	2.31	17.3	2300	26.0	35.0	1.6	12.0	0.0	74.6	16.1	0.14	0.7	0	0	100	270	530	0.2	2.1	6.4	0.40
21371297	HAN25	196	213	0 to 5	7.3	6.3	0.14	0.94	21	15.0	27.0	2.7	1.3	0.0	46.0	2.8	0.05	0.6	13	4	160	220	6	1.0	3.1	1.40	1.4
21371298	HAN25	196	213	5 to 15	7.5	6.8	0.43	2.88	350	15.0	29.0	2.1	3.6	0.0	49.7	7.2	0.06	0.5	13	3	120	220	17	0.6	2.9	1.80	0.9
21371299	HAN25	196	213	15 to 30	8	7.6	1.26	8.44	1600	15.0	35.0	1.6	7.8	0.0	59.4	13.1	0.10	0.4	2	1	99	260	76	0.3	2.8	2.70	0.6
21371300	HAN25	196	213	30 to 60	8.3	8.1	2.6	17.42	3800	13.0	39.0	1.3	14.0	0.0	67.3	20.8	0.12	0.3		1	110	250	290	0.2	2.8	4.80	0.5
21371303	HAN25	196	213	60 to 100	8.4	8.2	3.67	31.56	5500	12.0	41.0	1.5	20.0	0.0	74.5	26.8	0.14	0.3	1	0	76	240	700	0.3	1.8	7.00	0.2
21371304	HAN25	196	213	200	8.4	8.2	4.87	41.88	7300	21.0	38.0	1.4	23.0	0.0	83.4	27.6	0.18	0.6	1	2	44	240	1400	0.2	0.9	4.20	0.1
21371305	HAN25	196	213	300	8.3	8.2	4.95	42.57	6900	18.0	41.0	1.4	25.0	0.0	85.4	29.3	0.17	0.4		2	32	210	1400	0.2	0.8	3.80	0.1
21371543	HAN61	197	257	0 to 5	6.7	6.6	5.18	34.71	10000	18.0	43.0	2.1	20.0	0.0	83.1	24.1	0.22	0.4		23	96	140	690	1.2	2.7	0.75	1.8
21371544	HAN61	197	257	5 to 15	7.6	7.5	4.62	30.95	7900	13.0	35.0	1.6	20.0	0.0	69.6	28.7	0.16	0.4		16	88	150	960	0.5	2.5	1.10	1.3
21371545	HAN61	197	257	15 to 30	8	7.9	4.65	31.16	7800	12.0	34.0	1.1	20.0	0.0	67.1	29.8	0.16	0.4		10	41	150	770	0.2	2.5	1.90	0.8
21371546	HAN61	197	257	30 to 60	8.3	8.2	4.77	35.78	7700	19.0	41.0	1.1	25.0	0.0	86.1	29.0	0.16	0.5		4	51	190	830	0.1	2.2	3.10	0.5
21371547	HAN61	197	257	60 to 100	8.5	8.4	4.48	33.60	7200	20.0	40.0	1.3	26.0	0.0	87.3	29.8	0.15	0.5		1	37	200	780	0.1	1.0	3.80	0.2
21371306	HAN26	198	214	0 to 5	6.3	6.3	6.21	41.61	12000	28.0	41.0	2.8	12.0	0.0	83.8	14.3	0.43	0.7	1	34	240	220	540	2.7	2.7	0.97	3.1
21371307	HAN26	198	214	5 to 15	6.8	6.8	4.82	32.29	10000	21.0	39.0	2.3	10.0	0.0	72.3	13.8	0.35	0.5		13	140	190	480	0.7	2.3	1.20	1.8
21371308	HAN26	198	214	15 to 30	7	6.9	4.94	37.05	10000	18.0	38.0	2.2	11.0	0.0	69.2	15.9	0.31	0.5		12	130	210	460	0.2	2.4	0.97	1.1
21371312	HAN26	198	214	30 to 60	7.1	7.1	5.33	45.84	11000	18.0	47.0	2.1	14.0	0.0	81.1	17.3	0.31	0.4		6	160	290	480	0.1	2.4	0.83	0.8
21371313	HAN26	198	214	60 to 100	7.6	7.5	5	43.00	10000	13.0	44.0	1.7	13.0	0.0	71.7	18.1	0.28	0.3		2	130	210	530	0.2	2.3	0.91	0.8
21371314	HAN9	199	215	0 to 5	6.4	6.4	8.66	58.02	20000	16.0	44.0	1.4	18.0	0.0	79.4	22.7	0.38	0.4	2	10	170	160	740	3.8	2.0	0.56	2.5
21371315	HAN9	199	215	5 to 15	7.6	7.4	3.43	22.98	6200	9.5	22.0	1.4	13.0	0.0	45.9	28.3	0.12	0.4		4	49	190	340	0.9	2.2	0.74	1.4
21371316	HAN9	199	215	15 to 30	7.9	7.8	4.19	28.07	7700	11.0	29.0	1.5	17.0	0.0	58.5	29.1	0.14	0.4		3	16	220	400	0.2	2.3	0.68	0.9
21371317	HAN9	199	215	30 to 60	8.5	8.3	3.49	23.38	5900	17.0	30.0	1.4	17.0	0.0	65.4	26.0	0.13	0.6		1	11	210	340	0.1	2.0	1.10	0.4
21371318	HAN9	199	215	60 to 100	9	8.5	1.54	10.32	2000	12.0	24.0	1.2	10.0	0.0	47.2	21.2	0.07	0.5	2	1	49	230	130	0.2	1.5	2.80	0.2
21371345	HAN10	200	221	0 to 5	6.5	5.3	0.04	0.38	11	4.7	2.6	1.6	0.0	0.1	9.0	0.4	0.09	1.8	7	2	50	83	2	2.7	1.1	0.59	1.6
21371346	HAN10	200	221	5 to 15	6.3	5	0.03	0.29	5	4.3	2.2	1.5	0.1	0.1	8.2	0.7	0.04	2.0	7	3	21	95	1	0.9	1.4	0.66	0.9
21371347	HAN10	200	221	15 to 30	6.8	5.6	0.03	0.26	5	5.0	5.0	1.6	0.1	0.0	11.7	0.8	0.04	1.0	11	0	13	130	1	0.1	1.4	0.86	0.4
21371348	HAN10	200	221	30 to																							

Lab ID	BHPB Site ID	Map ID Feb '14	Site Photo ID	Depth, cm	pH 1:5 water	pH CaCl2	EC 1:5 dS/m	ECe dS/m	Chloride mg/kg	Exchangeable cations, meq/100g					CEC	ESP	ESI	Ca/Mg	ASWAT score	NO3-N mg/kg	Colwell-P mg/kg	PBI	SO4-S mg/kg	DTPA-Zn mg/kg	DTPA-Cu mg/kg	Boron mg/kg	Org. C %
										Ca	Mg	K	Na	Al													
21371342	HAN13A	211	220	15 to 30	6.2	4.9	0.03	0.26	5	4.6	1.7	0.9	0.1	0.1	7.4	1.2	0.02	2.7	6	2	19	92	2	0.2	1.4	0.66	0.7
21371343	HAN13A	211	220	30 to 60	5.6	4.8	0.07	0.60	15	6.0	6.3	0.5	0.2	0.2	13.2	1.4	0.05	1.0		0	17	290	21	0.0	0.9	0.95	0.5
21371344	HAN13A	211	220	60 to 100	6.2	5.5	0.11	0.95	5	7.0	11.0	0.5	0.7	0.0	19.1	3.4	0.03	0.6		0	15	470	34	0.0	0.4	1.60	0.2
21371197	HAN 17A	212	194	0 to 5	6.7	6.2	0.13	1.12	5	17.0	6.3	3.2	0.0	0.0	26.5	0.1	1.15	2.7	7	8	59	110	5	3.5	2.1	0.90	4.9
21371198	HAN 17A	212	194	5 to 15	6.2	5.3	0.07	0.60	5	11.0	5.6	2.4	0.1	0.1	19.2	0.6	0.11	2.0	6	7	17	140	3	0.3	2.5	0.84	2.4
21371199	HAN 17A	212	194	15 to 30	6.8	5.9	0.06	0.45	5	13.0	9.1	1.2	0.2	0.0	23.5	0.8	0.08	1.4	7	2	7	210	2	0.0	1.9	0.83	1.1
21371200	HAN 17A	212	194	30 to 60	7.3	6.4	0.05	0.38	12	15.0	14.0	0.5	0.2	0.0	29.7	0.7	0.07	1.1	2	0	3	300	1	0.0	1.2	0.68	0.7
21371201	HAN 17A	212	194	60 to 100	7.6	6.7	0.07	0.60	37	14.0	16.0	0.5	0.3	0.0	30.7	0.9	0.08	0.9		0	9	470	1	0.0	0.7	0.77	0.5
21371177	HAN 18	213	190	0 to 5	6.3	5.8	0.19	1.63	11	16.0	6.0	2.2	0.0	0.0	24.2	0.0	4.60	2.7	5	65	69	130	6	2.6	1.3	0.66	4.2
21371178	HAN 18	213	190	5 to 15	6.6	5.8	0.05	0.43	5	15.0	7.6	1.3	0.0	0.0	23.9	0.2	0.30	2.0	3	7	19	170	2	0.1	1.3	0.56	1.8
21371179	HAN 18	213	190	15 to 30	6.9	6	0.04	0.34	5	17.0	9.9	0.6	0.1	0.0	27.6	0.4	0.10	1.7	1	2	7	200	2	0.1	0.9	0.50	1.0
21371180	HAN 18	213	190	30 to 60	7.3	6.4	0.04	0.34	11	22.0	16.0	0.3	0.2	0.0	38.6	0.6	0.07	1.4		0	9	270	1	0.0	0.4	0.41	0.5
21371181	HAN 18	213	190	60 to 100	7.7	6.7	0.03	0.29	18	25.0	21.0	0.2	0.4	0.0	46.6	0.8	0.04	1.2		0	8	190	1	0.0	0.4	0.21	0.2
		214	155	0 to 5																							
		214	155	5 to 15																							
21371026	CMAWM 2	215	156	0 to 5	6.8	6.2	0.14	1.93	12	9.5	1.9	1.3	0.0	0.0	12.7	0.2	0.59	5.0	5	46	86	55	7	8.5	0.6	1.00	3.0
21371027	CMAWM 2	215	156	5 to 15	6.5	5.3	0.04	0.55	5	2.7	0.8	1.0	0.0	0.1	4.6	0.2	0.18	3.3	9	7	30	46	3	0.9	0.8	0.36	0.6
21371028	CMAWM 2	215	156	15 to 30	6.3	5	0.03	0.41	5	2.0	0.9	0.8	0.0	0.1	3.8	0.3	0.11	2.2	1	5	12	46	3	0.1	0.9	0.48	0.4
21371029	CMAWM 2	215	156	30 to 60	7.1	6	0.03	0.26	10	5.5	3.5	1.2	0.1	0.0	10.3	1.0	0.03	1.6	6	4	13	130	3	0.1	0.6	1.10	0.3
21371030	CMAWM 2	215	156	60 to 100	7.5	6.6	0.06	0.52	15	9.0	6.6	1.2	0.2	0.0	17.0	1.4	0.04	1.4		2	17	250	8	0.1	0.4	1.50	0.2
21371511	HAN68A	216	251	0 to 5	8.1	7.6	0.39	2.61	140	29.0	24.0	4.6	1.2	0.0	58.8	2.0	0.19	1.2	3	33	120	170	7	2.4	2.0	1.10	2.0
21371512	HAN68A	216	251	5 to 15	8.6	7.9	0.39	2.61	280	31.0	24.0	1.9	2.5	0.0	59.4	4.2	0.09	1.3		9	72	200	3	1.9	2.0	1.10	1.6
21371513	HAN68A	216	251	15 to 30	8.5	8.1	1.01	6.77	1100	29.0	26.0	1.6	5.7	0.0	62.3	9.1	0.11	1.1		6	90	220	19	0.5	2.3	1.20	1.4
21371514	HAN68A	216	251	30 to 60	8.4	8.1	1.66	11.12	2400	24.0	33.0	1.4	10.0	0.0	68.4	14.6	0.11	0.7		8	72	200	61	0.2	2.8	0.92	1.2
21371515	HAN68A	216	251	60 to 100	8.6	8.2	1.85	13.88	3000	23.0	39.0	1.3	13.0	0.0	76.3	17.0	0.11	0.6		30	82	200	68	0.2	2.9	1.40	1.0
21371506	HAN70A	217	250	0 to 5	7.5	6.9	0.24	1.61	27	20.0	21.0	2.5	0.9	0.0	44.4	2.0	0.12	1.0	6	3	130	170	8	1.2	2.9	1.30	1.8
21371507	HAN70A	217	250	5 to 15	7.9	6.9	0.16	1.07	15	22.0	23.0	1.8	1.4	0.0	48.2	2.9	0.06	1.0	8	9	83	160	5	0.9	2.8	1.50	1.4
21371508	HAN70A	217	250	15 to 30	8.8	7.7	0.22	1.47	27	20.0	25.0	1.1	5.2	0.0	51.3	10.1	0.02	0.8	12	6	76	210	2	0.3	3.0	1.80	0.9
21371509	HAN70A	217	250	30 to 60	9.4	8.6	0.63	4.22	150	22.0	28.0	1.1	11.0	0.0	62.1	17.7	0.04	0.8	14	8	110	210	12	0.2	3.6	6.80	0.5
21371510	HAN70A	217	250	60 to 100	9.6	9.1	1.14	8.55	520	16.0	26.0	1.1	19.0	0.0	62.1	30.6	0.04	0.6	14	9	93	200	100	0.1	3.0	16.00	0.3
21371501	HAN69A	218	249	0 to 5	6.9	6.7	1.01	6.77	540	16.0	23.0	6.3	2.0	0.0	47.3</												

Lab ID	BHPB Site ID	Map ID Feb '14	Site Photo ID	Depth, cm	pH 1:5 water	pH CaCl2	EC 1:5 dS/m	ECe dS/m	Chloride mg/kg	Exchangeable cations, meq/100g					CEC	ESP	ESI	Ca/Mg	ASWAT score	NO3-N mg/kg	Colwell-P mg/kg	PBI	SO4-S mg/kg	DTPA-Zn mg/kg	DTPA-Cu mg/kg	Boron mg/kg	Org. C %
										Ca	Mg	K	Na	Al													
21371275	HAN52	229	209	0 to 5	8.2	7.7	0.34	2.28	13	33.0	19.0	7.4	0.1	0.0	59.5	0.2	1.56	1.7	5	27	160	210	10	9.3	2.1	1.50	2.8
21371276	HAN52	229	209	5 to 15	8	7.6	0.74	4.96	210	29.0	19.0	10.0	0.2	0.0	58.2	0.3	2.15	1.5	2	160	240	230	37	15.0	2.3	1.70	2.3
21371277	HAN52	229	209	15 to 30	8.4	7.9	0.4	2.68	76	33.0	21.0	5.5	0.3	0.0	59.8	0.4	0.96	1.6		51	180	210	10	5.2	2.5	1.60	1.3
21371278	HAN52	229	209	30 to 60	8.7	8.2	0.33	2.21	33	29.0	33.0	3.6	0.8	0.0	66.4	1.2	0.28	0.9		15	130	250	12	2.0	2.3	1.60	0.8
21371279	HAN52	229	209	60 to 100	9	8.3	0.41	3.08	57	22.0	39.0	3.5	2.8	0.0	67.3	4.2	0.10	0.6	3	3	33	220	28	0.3	1.8	1.50	0.5
21371280	HAN52	229	209	200	8.7	8.2	0.74	5.55	530	12.0	29.0	1.4	4.0	0.0	46.4	8.6	0.09	0.4	2	55	23	150	48	0.5	0.4	1.30	0.1
21371281	HAN52	229	209	300	8.8	8.3	0.63	4.73	380	11.0	40.0	0.7	3.5	0.0	55.2	6.3	0.10	0.3		41	18	150	30	0.2	0.4	2.30	0.1
21371287	HAN54	230	211	0 to 5	7.6	6.9	0.15	1.01	5	25.0	26.0	2.2	0.0	0.0	53.2	0.1	2.66	1.0	2	5	82	170	2	1.6	2.5	1.50	1.8
21371288	HAN54	230	211	5 to 15	8.1	7.5	0.18	1.21	5	28.0	28.0	1.2	0.1	0.0	57.3	0.2	0.79	1.0		7	25	190	2	1.0	2.3	1.30	1.2
21371289	HAN54	230	211	15 to 30	8.5	7.9	0.21	1.41	5	31.0	31.0	1.0	0.3	0.0	63.2	0.4	0.51	1.0		3	17	220	1	0.3	2.3	1.10	1.0
21371290	HAN54	230	211	30 to 60	8.6	8.1	0.23	1.54	5	27.0	35.0	0.9	0.5	0.0	63.4	0.8	0.28	0.8		0	11	220	1	0.1	2.3	0.88	0.7
21371291	HAN54	230	211	60 to 100	8.9	8.3	0.29	1.94	24	18.0	47.0	0.8	1.5	0.0	67.3	2.2	0.13	0.4		3	13	210	7	0.1	2.3	1.20	0.6
21371846	4DR3A	231	306	0 to 5	7.5	6.9	0.25	2.15	5	17.0	21.0	2.5	0.5	0.0	41.0	1.3	0.20	0.8	6	23	130	140	3	1.8	2.6	1.0	2.30
21371847	4DR3A	231	306	5 to 15	8.1	7.3	0.16	1.38	5	18.0	24.0	1.2	1.4	0.0	44.6	3.1	0.05	0.8	8	15	62	180	5	0.2	2.8	1.4	1.00
21371848	4DR3A	231	306	15 to 30	8.3	7.4	0.16	1.07	5	17.0	26.0	1.0	1.9	0.0	45.9	4.1	0.04	0.7	9	15	45	190	5	0.2	2.7	1.5	0.80
21371849	4DR3A	231	306	30 to 60	8.9	8.2	0.43	3.23	110	21.0	30.0	0.7	4.4	0.0	56.1	7.9	0.05	0.7	12	15	33	220	18	0.1	2.6	2.1	0.53
21371850	4DR3A	231	306	60 to 100	9.0	8.6	1.29	9.68	1000	18.0	35.0	0.7	11.0	0.0	64.7	17.0	0.08	0.5	2	11	61	230	220	0.1	2.6	7.6	0.43
21582522	WAL 3	232	381	0 to 5	7.6	7.0	0.19	1.43	5	23.0	20.0	1.6	0.6	0.0	45.2	1.3	0.14	1.2	3	23	39	140	2	0.20	2.70	1.10	0.75
21582523	WAL 3	232	381	5 to 15	8.1	7.4	0.16	1.20	16	23.0	21.0	1.0	1.0	0.0	46.0	2.2	0.07	1.1	1	20	19	160	3	0.12	2.50	1.30	0.70
21582524	WAL 3	232	381	15 to 30	8.7	8.0	0.22	1.65	11	26.0	22.0	0.7	1.5	0.0	50.2	3.0	0.07	1.2	0	8	9	200	1	0.06	2.50	1.50	0.51
21582525	WAL 3	232	381	30 to 60	9.0	8.2	0.27	2.03	11	26.0	26.0	0.7	3.4	0.0	56.1	6.1	0.04	1.0	5	2	11	220	1	0.05	2.40	2.30	0.40
21582526	WAL 3	232	381	60 to 100	9.3	8.5	0.39	2.93	5	21.0	29.0	0.8	7.4	0.0	58.2	12.7	0.03	0.7	14	2	37	170	6	0.10	2.20	6.30	0.30
21582501	WAL 4	233	377	0 to 5	6.1	5.5	0.12	1.03	17	7.0	4.0	1.1	0.2	0.0	12.3	1.4	0.09	1.8	4	40	51	74	6	1.30	1.60	1.00	1.80
21582502	WAL 4	233	377	5 to 15	5.4	4.5	0.06	0.52	5	5.0	3.5	0.7	0.1	0.1	9.4	1.0	0.06	1.4	3	18	30	75	4	0.60	1.60	0.78	0.95
21582503	WAL 4	233	377	15 to 30	7.0	5.9	0.04	0.34	5	6.5	7.7	0.4	0.3	0.1	15.0	1.9	0.02	0.8	8	4	7	66	1	0.08	1.50	1.10	0.33
21582504	WAL 4	233	377	30 to 60	8.6	7.4	0.07	0.47	5	7.5	16.0	0.4	1.3	0.0	25.2	5.2	0.01	0.5	12	1	3	98	1	0.01	1.10	3.80	0.28
21582505	WAL 4	233	377	60 to 100	9.3	8.4	0.27	2.03	5	21.0	20.0	0.4	2.3	0.0	43.7	5.3	0.05	1.1	4	2	3	140	5	0.01	0.96	7.20	0.10
21371218	HAN 29	234	198	0 to 5	6.6	5.7	0.07	0.47	12	16.0	16.0	1.2	0.3	0.0	33.5	0.9	0.08	1.0	2	4	29	120	2	0.6	1.9	0.61	1.4
21371219	HAN 29	234	198	5 to 15	7.1	6	0.07	0.47	21	20.0	18.0	0.7	0.6	0.0	39.2	1.5	0.05	1.1		1	9	120	2	0.2	1.6	0.95	0.9
21371220	HAN 29	234	198	15 to 30	7.6	6.8	0.12	0.80	10	21.0	20.0	0.5	0.7	0.0	42.3	1.8	0.07	1.1	2	1	6	130	2	0.1	1.4		

Lab ID	BHPB Site ID	Map ID Feb '14	Site Photo ID	Depth, cm	pH 1:5 water	pH CaCl2	EC 1:5 dS/m	ECe dS/m	Chloride mg/kg	Exchangeable cations, meq/100g					CEC	ESP	ESI	Ca/Mg	ASWAT score	NO3-N mg/kg	Colwell-P mg/kg	PBI	SO4-S mg/kg	DTPA-Zn mg/kg	DTPA-Cu mg/kg	Boron mg/kg	Org. C %
										Ca	Mg	K	Na	Al													
21582555	WAL 12A	244	386	300	9.4	8.5	0.33	2.48	32	18.0	21.0	0.5	3.3	0.0	42.8	7.7	0.04	0.9	0	3	8	81	26	0.01	0.54	3.70	0.10
21582532	WAL 13A	245	383	0 to 5	5.6	4.7	0.10	0.86	17	7.0	8.2	1.1	0.5	0.1	16.9	2.8	0.04	0.9	5	20	24	120	9	2.00	2.20	1.10	3.80
21582533	WAL 13A	245	383	5 to 15	6.8	5.8	0.08	0.60	20	5.5	7.6	0.5	0.8	0.1	14.5	5.7	0.01	0.7	12	3	9	99	6	0.15	1.50	1.20	1.40
21582534	WAL 13A	245	383	15 to 30	7.5	6.1	0.06	0.45	23	6.0	11.0	0.4	1.4	0.0	18.8	7.4	0.01	0.5	14	2	3	86	2	0.05	1.20	1.80	0.87
21582535	WAL 13A	245	383	30 to 60	8.9	8.0	0.26	1.95	180	7.0	17.0	0.3	3.1	0.0	27.4	11.3	0.02	0.4	4	0	3	87	3	0.01	1.00	5.80	0.35
21582536	WAL 13A	245	383	60 to 100	9.4	8.5	0.50	4.30	280	17.0	20.0	0.3	4.8	0.0	42.1	11.4	0.04	0.9	2	1	8	120	39	0.01	0.83	8.40	0.15
21371213	HAN 32	246	197	0 to 5	7	6.1	0.06	0.40	5	17.0	12.0	0.9	0.2	0.0	30.1	0.7	0.09	1.4	5	2	19	97	2	0.5	1.2	0.66	1.3
21371214	HAN 32	246	197	5 to 15	7.4	6.5	0.07	0.47	5	22.0	14.0	0.6	0.5	0.0	37.1	1.3	0.05	1.6	3	1	7	100	2	0.2	1.1	0.90	1.0
21371215	HAN 32	246	197	15 to 30	8	7	0.09	0.60	16	25.0	16.0	0.5	0.7	0.0	42.3	1.8	0.05	1.6	3	0	6	95	2	0.1	1.2	1.10	0.9
21371216	HAN 32	246	197	30 to 60	8.3	7.4	0.15	0.87	27	25.0	20.0	0.5	1.3	0.0	46.8	2.8	0.05	1.3	3	0	6	100	4	0.1	1.2	1.70	1.0
21371217	HAN 32	246	197	60 to 100	8.7	8	0.33	1.91	50	28.0	22.0	0.6	2.5	0.0	53.1	4.7	0.07	1.3		0	9	99	17	0.6	1.1	3.30	0.7
21371233	HAN 33	247	201	0 to 5	6.6	5.9	0.15	1.13	30	27.0	13.0	2.8	0.2	0.0	43.0	0.5	0.28	2.1	8	8	210	170	8	2.5	2.8	0.84	4.5
21371234	HAN 33	247	201	5 to 15	6.6	5.8	0.08	0.60	12	32.0	12.0	0.9	0.2	0.0	45.0	0.3	0.24	2.7	3	4	41	180	3	0.3	2.7	0.80	1.9
21371235	HAN 33	247	201	15 to 30	7.1	6.2	0.08	0.54	19	38.0	15.0	0.7	0.2	0.0	53.9	0.3	0.24	2.5		1	14	210	2	0.1	2.1	0.83	1.4
21371236	HAN 33	247	201	30 to 40	7.1	6.2	0.08	0.54	13	40.0	15.0	0.7	0.2	0.0	55.9	0.3	0.24	2.7		1	13	290	2	0.1	1.8	0.69	1.2
21371237	HAN 33	247	201	60 to 100	8.5	7.8	0.17	1.46	5	47.0	9.9	0.5	0.2	0.0	57.6	0.3	0.49	4.7		1	10	210	1	0.0	0.8	0.38	0.4
		248	118	0 to 5																							
		248	118	5 to 15																							
		248	118	15 to 30																							
		248	118	30 to 60																							
21442157	CMAWM 9a	249	109	0 to 5	6.1	5.3	0.10	0.86	5	13.0	6.0	2.2	0.0	0.1	21.3	0.1	2.13	2.2	5	26	110	130	2	2.4	1.9	0.71	1.90
21442158	CMAWM 9a	249	109	5 to 15	6.5	5.6	0.05	0.43	12	17.0	6.8	1.0	0.0	0.0	24.8	0.2	0.31	2.5	5	6	41	120	3	0.4	1.9	0.66	1.10
21442159	CMAWM 9a	249	109	15 to 30	7.2	6.4	0.07	0.47	15	25.0	9.9	0.6	0.1	0.0	35.6	0.2	0.36	2.5		8	15	210	2	0.0	1.2	0.92	0.92
21442160	CMAWM 9a	249	109	30 to 60	7.6	6.8	0.07	0.60	5	30.0	12.0	0.5	0.2	0.0	42.7	0.4	0.19	2.5		3	22	280	5	0.0	0.6	0.70	0.73
21442161	CMAWM 9a	249	109	60 to 100	7.9	7.3	0.11	1.05	29	34.0	11.0	0.4	0.2	0.0	45.6	0.4	0.26	3.1	2	1	14	140	4	0.0	0.4	0.23	0.25
21442152	CMAWM 10a	250	108	0 to 5	5.4	4.9	0.39	2.93	22	11.0	12.0	1.7	0.4	0.1	25.2	1.5	0.26	0.9		110	40	93	6	1.9	2.4	1.20	1.80
21442153	CMAWM 10a	250	108	5 to 15	5.8	4.9	0.12	0.90	27	11.0	12.0	1.1	0.4	0.1	24.6	1.7	0.07	0.9	1	27	20	100	4	0.6	2.3	1.10	1.30
21442154	CMAWM 10a	250	108	15 to 30	7.6	6.7	0.12	0.80	16	16.0	20.0	0.5	1.3	0.0	37.8	3.4	0.03	0.8	5	11	3	150	3	0.1	1.7	1.70	1.20
51442155	CMAWM 10a	250	108	30 to 60	8.5	7.5	0.19	1.27	18	17.0	21.0	0.5	2.4	0.0	40.9	5.9	0.03	0.8	9	6	3	140	4	0.1	1.5	2.60	0.98
21442156	CMAWM 10a	250	108	60 to 100	9.2	8.3	0.33	2.84	24	25.0	25.0	0.6	4.2	0.0	54.8	7.7	0.04	1.0	13	1	3	120	11	0.1	1.4	3.90	0.40
21371017	CMAWM 11	251	153	0 to 5	7.3	6.7	0.24	1.61	5	32.0	17.0	3.4	0.5	0.0	52.9	1.0	0.24	1.9									

Lab ID	BHPB Site ID	Map ID Feb '14	Site Photo ID	Depth, cm	pH 1:5 water	pH CaCl2	EC 1:5 dS/m	ECe dS/m	Chloride mg/kg	Exchangeable cations, meq/100g					CEC	ESP	ESI	Ca/Mg	ASWAT score	NO3-N mg/kg	Colwell-P mg/kg	PBI	SO4-S mg/kg	DTPA-Zn mg/kg	DTPA-Cu mg/kg	Boron mg/kg	Org. C %
										Ca	Mg	K	Na	Al													
21582277	RR2	261	347	15 to 30	8.1	7.1	0.1	0.75	19	19.0	26.0	0.6	1.3	0.0	46.9	2.8	0.04	0.7	6	5	18	160	1	0.2	2.4	1.80	0.80
21582278	RR2	261	347	30 to 60	9.1	8.3	0.27	2.03	11	25.0	30.0	0.5	3.1	0.0	58.6	5.3	0.05	0.8	7	1	33	180	1	0.1	1.9	2.70	0.51
21582279	RR2	261	347	60 to 100	9.4	8.5	0.37	2.78	28	20.0	31.0	0.6	5.7	0.0	57.3	9.9	0.04	0.6	11	1	57	170	3	0.1	1.7	6.70	0.32
21582543	WAL 17	262	385	0 to 5	6.2	5.0	0.04	0.34	5	3.8	3.3	0.7	0.2	0.1	8.1	2.5	0.02	1.2	7	2	16	83	2	0.94	1.10	0.55	2.00
21582544	WAL 17	262	385	5 to 15	7.2	5.9	0.06	0.52	14	4.5	6.0	0.3	1.1	0.1	12.0	9.2	0.01	0.8	12	1	7	82	1	0.10	0.96	1.10	0.95
21582545	WAL 17	262	385	15 to 30	8.4	7.2	0.14	1.05	45	8.0	13.0	0.3	2.8	0.0	24.1	11.6	0.01	0.6	14	2	3	120	1	0.03	0.93	2.50	0.62
21582546	WAL 17	262	385	30 to 50	9.2	8.3	0.36	2.70	200	8.5	16.0	0.3	4.4	0.0	29.2	15.1	0.02	0.5	7	1	3	130	10	0.01	0.81	6.80	0.33
21582547	WAL 17	262	385	50 to 60	9.4	8.5	0.54	4.64	280	17.0	16.0	0.3	5.2	0.0	38.5	13.5	0.04	1.1	2	1	3	150	48	0.01	0.98	7.70	0.18
21582548	WAL 17	262	385	60 to 100	9.6	8.6	0.57	4.90	350	18.0	15.0	0.3	5.7	0.0	39.0	14.6	0.04	1.2	0	1	15	120	53	0.01	0.77	6.00	0.10
21582537	WAL 18B	263	384	0 to 5	5.5	4.3	0.03	0.29	5	1.6	0.8	0.6	0.0	0.6	3.6	0.8	0.04	2.0	8	5	44	71	1	0.58	0.86	0.34	0.79
21582538	WAL 18B	263	384	5 to 14	5.1	4.1	0.04	0.38	5	1.9	1.0	0.5	0.0	0.7	4.1	0.7	0.05	1.9	2	7	18	71	9	0.15	0.84	0.33	0.56
21582539	WAL 18B	263	384	15 to 30	5.2	4.3	0.04	0.34	5	1.8	1.2	0.3	0.0	0.2	3.6	0.3	0.14	1.5	6	7	8	36	9	0.02	0.66	0.21	0.19
21582540	WAL 18B	263	384	35 to 45	6.1	5.1	0.02	0.28	16	1.4	1.1	0.2	0.0	0.1	2.8	1.4	0.01	1.3	6	4	5	32	3	0.01	0.45	0.13	0.10
21582541	WAL 18B	263	384	45 to 60	7.5	6.1	0.03	0.26	5	3.6	7.1	0.4	0.6	0.1	11.8	5.2	0.01	0.5	10	5	10	77	2	0.01	0.57	0.82	0.10
21582542	WAL 18B	263	384	70 to 100	8.1	6.8	0.07	0.60	5	3.4	12.0	0.5	1.7	0.0	17.6	9.7	0.01	0.3	12	9	10	130	2	0.01	0.50	3.90	0.10
21371486	HAN55	264	246	0 to 5	6.5	5.6	0.06	0.52	10	8.0	7.0	1.2	0.0	0.0	16.2	0.2	0.24	1.1	8	0	59	77	3	2.3	1.7	0.73	2.1
21371487	HAN55	264	246	5 to 15	7.1	6.2	0.04	0.34	5	10.0	6.6	0.6	0.1	0.0	17.3	0.6	0.06	1.5	7	0	11	70	2	1.8	1.4	0.91	1.1
21371488	HAN55	264	246	15 to 30	8	7.1	0.05	0.43	13	8.0	5.1	0.4	0.1	0.0	13.6	0.8	0.06	1.6	5	0	12	58	1	1.7	0.9	0.91	0.8
21371489	HAN55	264	246	30 to 60	8.7	7.5	0.08	0.60	5	7.0	13.0	0.4	1.1	0.0	21.5	5.1	0.02	0.5	13	1	3	130	3	0.0	0.8	2.30	0.2
21371490	HAN55	264	246	60 to 100	9.2	8.2	0.22	1.89	17	7.0	22.0	0.7	3.4	0.0	33.1	10.3	0.02	0.3	12	0	7	280	13	0.0	0.9	9.50	0.2
21371481	HAN56A	265	245	0 to 5	7.1	6.2	0.08	0.54	5	13.0	11.0	0.9	0.3	0.0	25.2	1.2	0.07	1.2	9	0	9	75	2	0.2	1.5	0.95	1.1
21371482	HAN56A	265	245	5 to 15	7.7	6.7	0.1	0.67	5	19.0	15.0	0.4	1.0	0.0	35.4	2.8	0.04	1.3	8	0	6	88	13	0.1	1.4	1.00	0.8
21371483	HAN56A	265	245	15 to 30	8.2	7	0.09	0.60	11	20.0	16.0	0.4	1.5	0.0	37.9	4.0	0.02	1.3	9	0	3	98	6	0.1	1.4	1.30	0.8
21371484	HAN56A	265	245	30 to 60	8.6	7.6	0.19	1.43	56	19.0	20.0	0.4	2.8	0.0	42.2	6.6	0.03	1.0	5	0	3	67	14	0.1	1.1	2.70	0.8
21371485	HAN56A	265	245	60 to 100	8.7	8.2	0.7	6.02	260	25.0	21.0	0.5	4.4	0.0	50.9	8.6	0.08	1.2		1	10	90	150	0.0	1.1	5.10	0.3
21371431	HAN57A	266	235	0 to 5	7	6.2	0.08	0.54	5	19.0	12.0	1.2	0.2	0.0	32.4	0.6	0.14	1.6	3	5	11	79	2	0.4	1.4	0.87	1.5
21371432	HAN57A	266	235	5 to 15	7.3	6.4	0.06	0.40	5	21.0	13.0	0.7	0.3	0.0	34.9	0.7	0.08	1.6	2	3	3	82	2	0.3	1.2	1.00	1.0
21371433	HAN57A	266	235	15 to 30	8.4	7.7	0.17	1.14	5	27.0	16.0	0.5	0.6	0.0	44.0	1.3	0.13	1.7		0	3	120	2	0.1	1.0	1.80	0.7
21371434	HAN57A	266	235	30 to 60	8.9	8.1	0.19	1.10	5	27.0	21.0	0.4	1.3	0.0	49.7	2.6	0.07	1.3		0	3	140	3	0.1	1.0	3.50	0.5
21371435	HAN57A	266	235	60 to 100	9	8.2	0.36	2.09	77	24.0	26.0	0.4	3.5	0.0	53.9	6.5											

Lab ID	BHPB Site ID	Map ID Feb '14	Site Photo ID	Depth, cm	pH 1:5 water	pH CaCl2	EC 1:5 dS/m	ECe dS/m	Chloride mg/kg	Exchangeable cations, meq/100g					CEC	ESP	ESI	Ca/Mg	ASWAT score	NO3-N mg/kg	Colwell-P mg/kg	PBI	SO4-S mg/kg	DTPA-Zn mg/kg	DTPA-Cu mg/kg	Boron mg/kg	Org. C %
										Ca	Mg	K	Na	Al													
21582298	THY 4	277	351	30 to 60	9	8.2	0.24	1.80	34	24.0	32.0	0.5	1.7	0.0	58.2	2.9	0.08	0.8	0	0	6	170	1	0.2	1.8	4.50	0.52
21582299	THY 4	277	351	60 to 100	9.4	8.5	0.29	2.18	21	23.0	35.0	0.5	3.3	0.0	61.8	5.3	0.05	0.7	2	0	31	150	4	0.1	1.2	9.60	0.17
21582300	THY 4	277	351	200	8.8	8.4	0.89	7.65	360	25.0	35.0	0.6	4.8	0.0	65.4	7.3	0.12	0.7	0	0	27	130	280	0.1	0.8	7.10	0.10
21582301	THY 4	277	351	300	8.6	8.3	1.26	10.84	1100	23.0	34.0	0.5	5.2	0.0	62.7	8.3	0.15	0.7	0	0	16	120	760	0.1	0.6	5.00	0.10
21582306	THY 5	278	352	0 to 5	7.3	6.5	0.14	0.94	20	14.0	26.0	2.5	0.2	0.0	42.7	0.6	0.25	0.5	4	27	73	150	3	1.3	2.9	1.30	1.30
21582305	THY 5	278	352	5 to 15	7.9	7	0.1	0.67	17	16.0	30.0	0.9	0.5	0.0	47.4	1.0	0.10	0.5	2	0	28	170	2	0.4	2.4	1.60	0.81
21582304	THY 5	278	352	15 to 30	8.3	7.3	0.07	0.47	21	16.0	30.0	0.7	0.7	0.0	47.3	1.4	0.05	0.5	2	0	27	170	1	0.2	2.1	2.30	0.68
21582303	THY 5	278	352	30 to 60	8.9	8.2	0.27	2.03	71	23.0	34.0	0.6	1.3	0.0	58.9	2.2	0.12	0.7	1	0	46	190	2	0.1	1.8	3.80	0.50
21582302	THY 5	278	352	60 to 100	9.3	8.5	0.25	1.88	16	18.0	35.0	0.7	2.6	0.0	56.3	4.6	0.05	0.5	10	0	59	160	5	0.1	1.4	6.90	0.22
21582265	RR3	279	345	0 to 5	7.3	6.6	0.1	0.67	24	23.0	21.0	2.5	0.2	0.0	46.7	0.5	0.20	1.1	6	6	120	170	1	2.5	3.3	0.76	1.60
21582266	RR3	279	345	5 to 15	7.1	6.2	0.09	0.60	5	23.0	22.0	1.5	0.6	0.0	47.1	1.3	0.07	1.0	6	8	70	130	2	2.3	3.2	0.85	1.30
21582267	RR3	279	345	15 to 30	7.8	6.8	0.11	0.74	34	24.0	24.0	0.9	1.0	0.0	49.9	2.0	0.05	1.0	5	8	51	150	1	0.8	2.8	0.66	1.10
21582268	RR3	279	345	30 to 60	8.3	7.3	0.16	1.20	83	24.0	26.0	0.6	2.3	0.0	52.9	4.3	0.04	0.9	9	1	63	150	1	0.3	2.5	1.20	0.96
21582269	RR3	279	345	60 to 100	8.8	7.8	0.17	1.46	29	22.0	27.0	0.7	3.8	0.0	53.5	7.1	0.02	0.8	11	1	120	160	4	0.2	2.6	1.20	0.99
21582238	RR 4A	280	340	0 to 5	7.4	6.6	0.12	1.03	5	16.0	26.0	2.1	0.3	0.1	44.5	0.8	0.16	0.6	5	16	69	150	3	3.1	3.2	1.20	1.40
21582239	RR 4A	280	340	5 to 15	7.7	6.8	0.11	0.83	23	17.0	27.0	1.3	0.6	0.0	45.9	1.2	0.09	0.6	0	10	23	140	2	1.3	2.5	1.20	0.93
21582240	RR 4A	280	340	15 to 30	8.1	7.2	0.1	0.75	5	17.0	30.0	0.7	0.7	0.0	48.4	1.4	0.07	0.6	1	2	16	160	1	0.4	2.5	1.30	0.71
21582241	RR 4A	280	340	30 to 60	8.9	8.2	0.23	1.54	19	19.0	35.0	0.6	1.4	0.0	56.0	2.5	0.09	0.5	0	0	24	210	1	0.1	2.1	2.40	0.48
21582242	RR 4A	280	340	60 to 100	9.3	8.5	0.29	1.95	5	17.0	40.0	0.7	3.5	0.1	61.3	5.7	0.05	0.4	8	1	55	200	1	0.1	1.8	6.30	0.37
21582228	RR 5	281	338	0 to 5	6.3	5.3	0.04	0.55	5	3.9	2.3	1.0	0.0	0.1	7.3	0.5	0.07	1.7	6	4	43	63	3	1.6	0.8	0.43	1.90
21582229	RR 5	281	338	5 to 15	6.6	5.2	0.02	0.28	5	2.7	2.1	1.0	0.0	0.1	5.9	0.7	0.03	1.3	5	1	9	64	1	0.1	1.0	0.37	0.55
21582230	RR 5	281	338	15 to 30	6.5	5.4	0.02	0.17	5	2.8	2.5	0.8	0.1	0.1	6.3	1.1	0.02	1.1	5	1	9	76	1	0.0	0.9	0.41	0.34
21582231	RR 5	281	338	30 to 60	7.6	6.4	0.02	0.17	5	5.0	6.9	0.6	0.1	0.0	12.6	0.7	0.03	0.7	6	0	12	140	1	0.0	0.6	0.96	0.23
21582232	RR 5	281	338	60 to 100	7.8	6.8	0.05	0.43	11	6.0	14.0	0.9	0.2	0.1	21.2	1.0	0.05	0.4	0	1	21	370	5	0.0	0.3	3.00	0.19
21582338	RR 6	282	359	0 to 5	6.2	5.4	0.12	1.03	41	5.5	2.1	1.3	0.1	0.1	9.1	0.8	0.16	2.6	5	25	42	68	7	2.3	1.0	0.93	3.00
21582339	RR 6	282	359	5 to 15	6	4.8	0.05	0.43	20	3.1	1.2	0.9	0.1	0.1	5.4	1.7	0.03	2.6	9	1	12	74	4	0.4	1.1	0.99	1.20
21582340	RR 6	282	359	15 to 30	6.6	5.4	0.03	0.26	15	3.3	1.6	0.5	0.1	0.1	5.6	2.0	0.02	2.1	10	0	9	78	3	0.1	0.9	0.84	0.49
21582341	RR 6	282	359	30 to 60	7.2	5.9	0.03	0.23	14	5.0	5.5	0.3	0.3	0.0	11.1	2.9	0.01	0.9	10	0	9	120	2	0.0	0.7	1.20	0.30
21582342	RR 6	282	359	60 to 100	7.9	6.7	0.06	0.52	15	8.0	11.0	0.5	0.6	0.0	20.1	2.8	0.02	0.7	9	0	6	140	9	0.0	0.6	3.80	0.29
21371466	HAN36A	283	242	0 to 5	7.4	6.6	0.08	0.69	16	12.0	3.0	1.4	0.0	0.1	16.5	0.2	0.44	4.0</									

Lab ID	BHPB Site ID	Map ID Feb '14	Site Photo ID	Depth, cm	pH 1:5 water	pH CaCl2	EC 1:5 dS/m	ECe dS/m	Chloride mg/kg	Exchangeable cations, meq/100g					CEC	ESP	ESI	Ca/Mg	ASWAT score	NO3-N mg/kg	Colwell-P mg/kg	PBI	SO4-S mg/kg	DTPA-Zn mg/kg	DTPA-Cu mg/kg	Boron mg/kg	Org. C %
										Ca	Mg	K	Na	Al													
21582413	WLS 2	294	373	5 to 15	5.8	4.5	0.02	0.45	5	0.7	0.3	0.3	0.0	0.2	1.4	0.7	0.03	2.5	8	5	8	18	1	0.2	0.3	0.16	0.32
21582414	WLS 2	294	373	15 to 30	6.6	5.1	0.02	0.45	5	0.7	0.2	0.4	0.0	0.1	1.3	0.8	0.03	3.6	8	4	3	15	1	0.1	0.2	0.70	0.10
21582415	WLS 2	294	373	30 to 65	7.1	5.8	0.01	0.23	5	0.5	0.1	0.2	0.0	0.1	0.9	1.1	0.01	3.8	9	2	3	3	1	0.1	0.1	0.10	0.10
21582416	WLS 2	294	373	60 to 100	7.1	6	0.02	0.19	5	6.5	3.7	0.5	0.1	0.1	10.9	0.8	0.02	1.8	5	1	28	180	3	0.1	0.2	0.81	0.10
21582348	WLS 10	295	361	0 to 5	5.6	5.1	0.28	2.41	23	6.0	3.4	1.7	0.1	0.1	11.3	0.5	0.53	1.8	6	88	100	96	12	2.7	1.9	0.87	2.90
21582349	WLS 10	295	361	5 to 15	5.9	4.9	0.04	0.34	11	3.0	1.6	0.8	0.0	0.1	5.5	0.2	0.22	1.9	6	8	52	86	3	0.4	1.6	0.51	0.78
21582350	WLS 10	295	361	15 to 30	6.2	5.1	0.03	0.26	5	6.0	4.0	1.0	0.0	0.1	11.1	0.3	0.11	1.5	5	3	21	160	3	0.1	1.3	0.86	0.41
21582351	WLS 10	295	361	30 to 60	6.8	5.7	0.03	0.26	5	9.0	8.2	1.2	0.1	0.1	18.6	0.4	0.08	1.1	4	1	41	260	4	0.1	0.9	1.40	0.30
21582352	WLS 10	295	361	60 to 100	7.2	6.2	0.04	0.34	5	10.0	11.0	1.2	0.1	0.1	22.4	0.5	0.07	0.9	7	1	38	320	3	0.1	0.9	2.00	0.30
21582353	WLS 11	296	362	0 to 5	6.5	5.6	0.09	0.52	24	14.0	17.0	1.7	0.3	0.0	33.0	0.8	0.11	0.8	6	8	62	160	5	2.1	3.6	1.20	1.60
21582354	WLS 11	296	362	5 to 15	7.1	6.2	0.08	0.46	25	17.0	19.0	1.0	0.5	0.0	37.5	1.3	0.06	0.9	5	3	18	170	3	0.6	2.9	1.30	0.96
21582355	WLS 11	296	362	15 to 30	7.5	6.6	0.08	0.46	15	18.0	21.0	0.8	0.7	0.0	40.4	1.6	0.05	0.9	4	3	15	180	2	0.3	2.7	1.60	0.89
21582356	WLS 11	296	362	30 to 60	8.5	7.9	0.3	1.74	92	24.0	22.0	0.6	1.2	0.0	47.8	2.5	0.12	1.1	0	1	14	210	2	0.2	2.4	2.40	0.75
21582357	WLS 11	296	362	60 to 100	8.9	8.1	0.27	2.32	5	23.0	26.0	0.7	2.4	0.0	52.1	4.6	0.06	0.9	5	0	38	180	6	0.2	2.0	5.30	0.45
21582358	WLS 12	297	363	0 to 5	6.5	5.8	0.12	0.90	27	17.0	21.0	2.1	0.2	0.0	40.3	0.5	0.25	0.8	5	14	75	150	6	2.6	3.8	1.20	1.90
21582359	WLS 12	297	363	5 to 15	7.2	6.3	0.11	0.74	31	20.0	21.0	1.1	0.4	0.0	42.5	1.0	0.11	1.0	2	9	29	170	4	1.5	3.1	1.50	1.00
21582360	WLS 12	297	363	15 to 30	7.6	6.8	0.16	1.07	87	21.0	23.0	0.8	0.9	0.0	45.7	1.9	0.08	0.9	1	1	27	190	2	0.2	3.0	1.70	0.92
21582361	WLS 12	297	363	30 to 60	8.2	7.1	0.1	0.67	16	20.0	23.0	0.8	1.3	0.0	45.1	2.9	0.03	0.9	2	2	36	190	2	0.3	2.9	1.80	0.89
21582362	WLS 12	297	363	60 to 100	8.8	8.1	0.29	2.18	27	23.0	26.0	0.8	2.7	0.0	52.5	5.1	0.06	0.9	5	2	65	200	6	0.3	2.8	3.60	0.62
21582363	WLS 13A	298	364	0 to 5	6.5	5.7	0.11	0.83	5	15.0	21.0	2.3	0.2	0.0	38.5	0.5	0.21	0.7	6	12	89	160	5	2.9	4.3	1.30	1.80
21582364	WLS 13A	298	364	5 to 15	6.9	6.2	0.13	0.87	18	21.0	26.0	1.2	0.5	0.0	48.7	1.1	0.12	0.8	3	19	43	150	7	1.1	3.5	1.70	1.10
21582365	WLS 13A	298	364	15 to 30	7.8	7	0.13	0.87	14	22.0	28.0	0.9	0.7	0.0	51.7	1.4	0.09	0.8	2	9	24	190	4	0.4	3.0	2.10	0.90
21582366	WLS 13A	298	364	30 to 60	8.6	8	0.25	1.88	5	29.0	30.0	0.8	1.3	0.0	61.1	2.1	0.12	1.0	1	1	37	210	4	0.2	2.8	2.90	0.70
21582367	WLS 13A	298	364	60 to 100	8.8	8.1	0.28	2.10	5	26.0	32.0	0.8	2.6	0.0	61.4	4.2	0.07	0.8	2	1	51	190	5	0.2	2.7	5.80	0.61
21582260	RR 7A	299	344	0 to 5	7.2	6.5	0.12	0.80	5	19.0	23.0	2.6	0.2	0.1	44.9	0.4	0.30	0.8	5	8	140	140	2	1.7	2.8	0.42	1.50
21582261	RR 7A	299	344	5 to 15	8.2	7.4	0.13	0.87	5	26.0	26.0	0.8	0.4	0.1	53.3	0.8	0.17	1.0	3	2	26	150	1	0.4	2.0	0.48	0.84
21582262	RR7A	299	344	15 to 30	8.6	7.9	0.18	1.21	13	26.0	26.0	0.6	0.6	0.0	53.1	1.1	0.17	1.0	1	0	16	180	1	0.2	2.2	1.30	0.70
21582263	RR7A	299	344	30 to 60	8.8	8.1	0.21	1.41	22	29.0	30.0	0.5	1.1	0.0	60.6	1.8	0.12	1.0	1	0	17	200	1	0.1	2.1	2.40	0.54
21582264	RR7A	299	344	60 to 100	9.1	8.3	0.27	2.03	19	26.0	34.0	0.6	2.7	0.0	63.3	4.3	0.06	0.8	5	0	30	190	3	0.1	2.0	4.40	0.50
21582233	RR 8	300	339	0 to 5	6.6	5.7	0.09	0.68	22	8.0	13.0	0.9	0.4														

Lab ID	BHPB Site ID	Map ID Feb '14	Site Photo ID	Depth, cm	pH 1:5 water	pH CaCl2	EC 1:5 dS/m	ECe dS/m	Chloride mg/kg	Exchangeable cations, meq/100g					CEC	ESP	ESI	Ca/Mg	ASWAT score	NO3-N mg/kg	Colwell-P mg/kg	PBI	SO4-S mg/kg	DTPA-Zn mg/kg	DTPA-Cu mg/kg	Boron mg/kg	Org. C %
										Ca	Mg	K	Na	Al													
21582604	WIL 4A	311	397	5 to 15	7.8	7.1	0.21	1.22	22	31.0	21.0	1.3	0.3	0.1	53.7	0.5	0.43	1.5	0	40	11	100	4	0.65	1.50	1.20	1.10
21582605	WIL 4A	311	397	15 to 30	8.3	7.5	0.18	1.04	22	31.0	22.0	0.8	0.4	0.1	54.3	0.8	0.22	1.4	0	23	6	140	2	0.11	1.50	1.10	0.96
21582606	WIL 4A	311	397	30 to 60	8.6	7.9	0.24	1.39	62	31.0	26.0	0.7	1.0	0.1	58.8	1.7	0.14	1.2	1	2	8	130	1	0.05	1.60	1.20	0.90
21582607	WIL 4A	311	397	60 to 100	9.0	8.2	0.27	1.57	27	31.0	30.0	0.8	3.4	0.0	65.2	5.2	0.05	1.0	2	3	33	120	3	0.11	1.60	2.30	0.77
21582608	WIL 5	312	398	0 to 5	6.9	6.3	0.13	0.87	12	28.0	20.0	1.5	0.2	0.0	49.7	0.3	0.38	1.4	3	24	26	82	5	0.87	1.70	0.89	1.30
21582609	WIL 5	312	398	5 to 15	7.4	6.6	0.15	1.01	18	31.0	21.0	1.1	0.3	0.0	53.4	0.6	0.27	1.5	0	25	12	98	6	0.53	1.30	1.00	1.10
21582610	WIL 5	312	398	15 to 30	8.0	7.1	0.11	0.64	18	32.0	22.0	0.7	0.5	0.0	55.1	0.9	0.13	1.5	2	14	3	130	3	0.22	1.20	1.20	0.92
21582611	WIL 5	312	398	30 to 60	8.6	7.8	0.17	0.99	5	32.0	26.0	0.6	1.0	0.0	59.6	1.7	0.10	1.2	2	3	3	150	2	0.07	1.50	1.40	0.92
21582612	WIL 5	312	398	60 to 100	8.7	8.0	0.29	1.68	98	32.0	28.0	0.7	2.1	0.0	62.8	3.3	0.09	1.1	2	2	7	140	3	0.05	1.50	2.20	0.84
21371809	4DR12A	313	299	0 to 5	5.7	4.8	0.08	0.76	11	2.2	1.4	0.7	0.0	0.1	4.4	0.2	0.35	1.6	6	26	69	50	2	1.8	0.7	0.3	1.40
21371810	4DR12A	313	299	5 to 15	6.3	5.1	0.03	0.29	20	1.4	1.4	0.7	0.0	0.1	3.6	0.3	0.11	1.0	7	5	18	48	1	0.1	0.8	0.3	0.41
21371811	4DR12A	313	299	15 to 30	6.7	5.5	0.03	0.26	5	2.4	4.5	1.3	0.1	0.0	8.3	1.4	0.02	0.5	10	1	30	140	2	0.0	1.0	0.5	0.24
21371812	4DR12A	313	299	30 to 60	7.0	5.7	0.04	0.34	5	3.2	9.9	1.6	0.6	0.0	15.3	4.0	0.01	0.3	9	1	47	270	4	0.0	0.7	1.1	0.18
21371813	4DR12A	313	299	60 to 100	7.6	6.5	0.12	1.03	44	3.0	11.0	1.6	1.2	0.0	16.8	7.1	0.02	0.3	6	0	39	410	21	0.0	0.3	2.4	0.10
21582427	WLS 4	314	376	0 to 5	6.6	5.9	0.09	2.04	5	5.0	1.0	0.7	0.0	0.1	6.8	0.1	0.61	5.1	6	25	42	25	5	1.6	0.3	0.67	1.60
21582428	WLS 4	314	376	5 to 15	6.4	5.2	0.05	1.14	5	2.4	0.4	0.8	0.0	0.1	3.7	0.3	0.18	6.2	7	7	11	26	4	0.3	0.4	0.47	0.54
21582429	WLS 4	314	376	15 to 30	8.1	7.4	0.1	2.27	5	4.1	0.3	0.6	0.0	0.1	5.2	0.2	0.52	12.8	8	5	6	28	4	0.1	0.2	0.44	0.49
21582430	WLS 4	314	376	30 to 60	8.3	7.3	0.04	0.91	5	2.2	0.3	0.4	0.0	0.1	3.0	0.3	0.12	8.8	9	3	3	18	2	0.1	0.2	0.40	0.10
21582431	WLS 4	314	376	60 to 85	8	7.4	0.09	2.04	73	2.9	0.4	0.4	0.0	0.1	3.8	0.3	0.35	6.9	10	3	3	24	1	0.1	0.2	0.33	0.10
21582432	WLS 4	314	376	85 to 100	8.1	7.6	0.18	1.55	130	10.0	1.9	0.8	0.0	0.1	12.8	0.2	0.77	5.3	3	2	23	130	2	0.1	0.2	0.99	0.10
21582407	WLS 5	315	372	0 to 5	6.6	6	0.14	1.20	16	7.5	2.9	1.6	0.1	0.1	12.2	0.4	0.34	2.6	7	38	110	72	4	1.5	1.0	0.76	2.30
21582408	WLS 5	315	372	5 to 15	7.7	7.2	0.12	1.03	5	10.0	1.3	1.2	0.1	0.1	12.7	0.4	0.30	7.7	3	2	28	79	1	0.3	1.0	0.77	0.88
21582409	WLS 5	315	372	15 to 30	8.6	8	0.12	1.03	5	19.0	1.1	0.8	0.0	0.1	21.1	0.1	0.84	17.3	3	1	16	95	1	0.1	0.8	0.78	0.50
21582410	WLS 5	315	372	30 to 55	8.6	7.9	0.12	1.03	5	22.0	1.9	1.0	0.0	0.1	25.0	0.0	3.00	11.6	2	1	24	160	1	0.1	0.6	1.30	0.51
21582411	WLS 5	315	372	60 to 100	8.5	7.9	0.18	1.55	47	14.0	11.0	1.4	0.1	0.1	26.6	0.3	0.53	1.3	2	0	17	360	1	0.1	0.2	2.70	0.18
21582378	WLS 14	316	367	0 to 5	6.5	5.7	0.1	0.75	5	19.0	19.0	2.0	0.2	0.0	40.2	0.6	0.17	1.0	5	15	79	160	4	2.2	3.8	0.93	1.40
21582379	WLS 14	316	367	5 to 15	6.8	5.9	0.13	0.98	57	23.0	21.0	1.0	0.6	0.0	45.6	1.3	0.10	1.1	0	6	23	150	5	0.5	3.1	1.20	1.10
21582380	WLS 14	316	367	15 to 30	7.6	6.6	0.1	0.67	15	25.0	22.0	0.8	0.9	0.0	48.6	1.8	0.06	1.1	2	4	16	170	5	0.2	2.7	1.30	0.95
21582381	WLS 14	316	367	30 to 60	8.3	7.2	0.1	0.75	5	25.0	24.0	0.8	2.0	0.0	51.8	3.9	0.03	1.0	8	2	30	170	5	0.3	2.7	1.70	1.00
21582382	WLS 14	316	367	60 to 100	8.9	8.1	0.31	2.67	85	24.0	25.0	0.8	3.3	0.0													

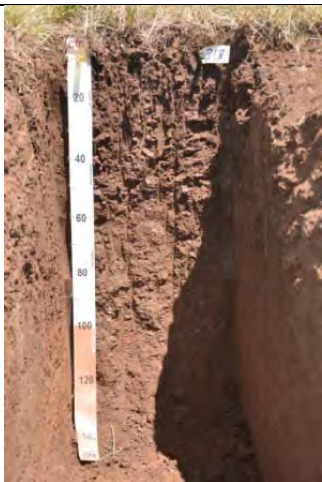
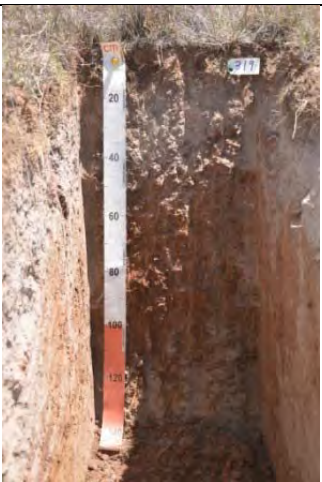
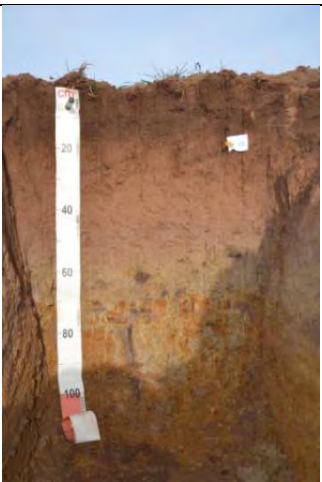
Lab ID	BHPB Site ID	Map ID Feb '14	Site Photo ID	Depth, cm	pH 1:5 water	pH CaCl2	EC 1:5 dS/m	ECe dS/m	Chloride mg/kg	Exchangeable cations, meq/100g					CEC	ESP	ESI	Ca/Mg	ASWAT score	NO3-N mg/kg	Colwell-P mg/kg	PBI	SO4-S mg/kg	DTPA-Zn mg/kg	DTPA-Cu mg/kg	Boron mg/kg	Org. C %
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21582598	WIL 9	330	396	0 to 5	6.5	6.0	0.12	0.90	22	11.0	12.0	2.6	0.1	0.0	25.7	0.4	0.34	0.9	10	10	79	87	6	1.00	2.70	1.20	2.20
21582599	WIL 9	330	396	5 to 15	6.9	6.1	0.11	0.83	16	14.0	16.0	0.8	0.3	0.0	31.1	0.8	0.14	0.9	3	19	12	76	4	1.80	2.00	1.20	1.10
21582600	WIL 9	330	396	15 to 30	7.9	6.9	0.08	0.54	15	16.0	20.0	0.7	0.4	0.0	37.1	1.2	0.07	0.8	1	8	5	100	2	0.07	1.60	1.70	0.82
21582601	WIL 9	330	396	30 to 60	8.5	8.0	0.29	2.18	130	23.0	26.0	0.6	0.9	0.0	50.5	1.8	0.16	0.9	1	5	3	140	2	0.03	1.50	3.70	0.66
21582602	WIL 9	330	396	60 to 100	9.2	8.3	0.28	2.10	5	24.0	30.0	0.6	2.6	0.1	57.3	4.5	0.06	0.8	2	1	6	140	2	0.03	1.20	8.70	0.33
21582618	WIL 10	331	400	0 to 5	7.4	6.7	0.11	0.74	5	27.0	19.0	1.2	0.3	0.1	47.6	0.6	0.19	1.4	3	12	14	91	2	0.48	1.50	1.20	1.20
21582619	WIL 10	331	400	5 to 15	8.1	7.5	0.23	1.54	14	30.0	21.0	0.8	0.4	0.0	52.2	0.8	0.29	1.4	0	19	8	120	4	0.14	1.20	1.30	0.96
21582620	WIL 10	331	400	15 to 30	8.4	7.8	0.26	1.51	100	30.0	23.0	0.5	0.7	0.0	54.2	1.2	0.22	1.3	0	10	3	150	2	0.03	1.20	1.50	0.75
21582621	WIL 10	331	400	30 to 60	8.8	8.1	0.26	1.74	39	31.0	28.0	0.4	1.9	0.0	61.3	3.1	0.08	1.1	1	2	3	200	1	0.01	1.10	2.30	0.60
21582622	WIL 10	331	400	60 to 100	9.1	8.2	0.33	2.21	5	30.0	30.0	0.5	3.8	0.0	64.3	5.9	0.06	1.0	3	1	3	200	1	0.03	1.10	4.00	0.51
21582613	WIL 11	332	399	0 to 5	6.9	6.1	0.10	0.67	5	23.0	21.0	1.0	0.3	0.0	45.3	0.6	0.16	1.1	3	19	19	88	3	0.43	1.70	0.87	0.97
21582614	WIL 11	332	399	5 to 15	7.2	6.2	0.08	0.54	11	24.0	20.0	0.8	0.4	0.0	45.2	0.9	0.09	1.2	4	9	7	96	2	0.26	1.50	0.94	0.92
21582615	WIL 11	332	399	15 to 30	7.7	6.6	0.07	0.47	5	25.0	21.0	0.5	0.6	0.0	47.1	1.2	0.06	1.2	2	8	5	97	1	0.07	1.40	1.00	0.81
21582616	WIL 11	332	399	30 to 60	8.1	7.0	0.06	0.40	5	24.0	22.0	0.5	1.1	0.0	47.6	2.3	0.03	1.1	4	3	3	110	1	0.08	1.40	1.40	0.79
21582617	WIL 11	332	399	60 to 90	8.9	8.0	0.21	1.41	20	25.0	25.0	0.6	2.2	0.0	52.8	4.2	0.05	1.0	2	1	9	110	3	0.05	1.30	2.20	0.69
21582640	WIL 12	333	404	0 to 5	6.1	5.3	0.12	0.90	20	17.0	16.0	1.3	0.2	0.1	34.6	0.5	0.24	1.1	0	19	52	97	8	0.64	2.40	0.91	1.90
21582641	WIL 12	333	404	5 to 15	6.7	5.8	0.08	0.46	17	19.0	18.0	0.8	0.2	0.0	38.0	0.6	0.13	1.1	0	8	9	120	7	0.15	1.70	0.94	1.00
21582642	WIL 12	333	404	15 to 30	7.5	6.5	0.07	0.41	27	20.0	18.0	0.5	0.3	0.0	38.8	0.8	0.08	1.1	0	9	6	95	3	0.08	1.30	1.00	0.82
21582643	WIL 12	333	404	30 to 60	7.8	6.9	0.12	0.70	89	20.0	19.0	0.4	0.6	0.0	40.1	1.5	0.08	1.1	0	3	10	88	2	0.11	1.20	1.50	0.81
21582644	WIL 12	333	404	60 to 100	8.5	7.8	0.19	1.10	50	22.0	21.0	0.4	1.0	0.0	44.4	2.3	0.08	1.0	0	2	8	110	3	0.09	1.20	1.50	0.77
21582645	WIL 12	333	404	200	8.7	8.2	0.58	3.36	43	25.0	28.0	0.5	3.7	0.0	57.2	6.5	0.09	0.9	0	2	18	100	220	0.06	0.81	3.30	0.10
21582646	WIL 12	333	404	300	8.7	8.2	0.65	3.77	150	33.0	30.0	0.5	3.9	0.0	67.4	5.8	0.11	1.1	0	2	15	93	220	0.03	0.67	2.50	0.10
21582422	WLS 6	334	375	0 to 5	6.2	5.3	0.06	0.57	5	3.5	0.8	0.8	0.0	0.1													

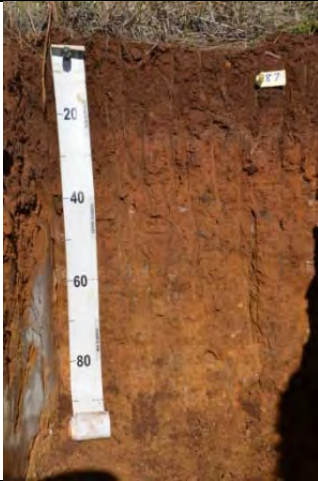
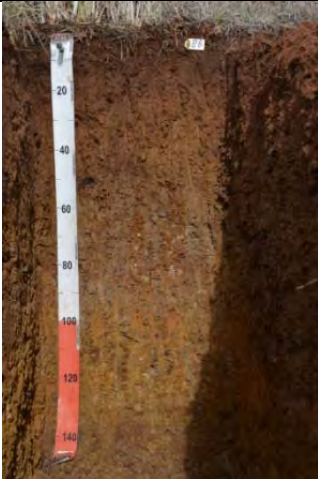
Lab ID	BHPB Site ID	Map ID Feb '14	Site Photo ID	Depth, cm	pH 1:5 water	pH CaCl2	EC 1:5 dS/m	ECe dS/m	Chloride mg/kg	Exchangeable cations, meq/100g					CEC	ESP	ESI	Ca/Mg	ASWAT score	NO3-N mg/kg	Colwell-P mg/kg	PBI	SO4-S mg/kg	DTPA-Zn mg/kg	DTPA-Cu mg/kg	Boron mg/kg	Org. C %
										Ca	Mg	K	Na	Al													
21582311	RR 18A	342	353	60 to 100	7.4	6.9	0.21	1.81	200	10.0	8.1	0.9	0.2	0.0	19.2	1.1	0.18	1.2	4	1	15	230	6	0.0	0.3	1.20	0.19
21582312	RR 19	343	354	0 to 5	6.4	5.2	0.03	0.41	11	3.5	1.2	0.7	0.0	0.1	5.5	0.2	0.16	2.9	10	2	18	40	1	1.2	0.5	0.30	1.70
21582313	RR 19	343	354	5 to 15	6.5	5.1	0.02	0.28	10	3.6	1.0	0.8	0.0	0.1	5.5	0.4	0.06	3.6	9	0	19	47	1	0.1	0.8	0.30	0.74
21582314	RR 19	343	354	15 to 30	6.7	5.4	0.01	0.10	19	3.4	1.2	0.5	0.0	0.1	5.2	0.4	0.03	2.8	10	0	11	44	1	0.1	0.7	0.32	0.31
21582315	RR 19	343	354	42 to 60	7.5	6.2	0.01	0.09	15	4.9	3.3	0.5	0.0	0.0	8.7	0.1	0.09	1.5	10	1	11	69	1	0.1	0.6	0.46	0.16
21582316	RR 19	343	354	60 to 100	7.9	6.7	0.02	0.17	14	5.5	5.8	0.5	0.1	0.0	11.9	0.4	0.05	0.9	12	0	14	76	1	0.0	0.3	0.66	0.10
21582322	RR 20A	344	356	0 to 5	6.3	5.5	0.05	0.48	20	5.0	1.8	0.7	0.0	0.0	7.5	0.1	0.38	2.8	8	3	28	48	4	2.1	0.6	0.52	2.60
21582323	RR 20A	344	356	5 to 15	6.4	5.3	0.03	0.29	18	3.7	1.3	0.7	0.0	0.1	5.8	0.2	0.17	2.8	7	0	12	66	2	0.2	0.8	0.46	0.83
21582324	RR 20A	344	356	15 to 30	6.6	5.4	0.02	0.17	5	3.4	1.3	0.5	0.0	0.1	5.3	0.2	0.11	2.6	9	0	9	66	1	0.1	0.7	0.46	0.46
21582325	RR 20A	344	356	30 to 60	7.4	6.3	0.03	0.26	11	6.0	5.7	0.5	0.1	0.0	12.3	0.6	0.05	1.1	10	0	7	130	1	0.1	0.5	0.89	0.19
21582326	RR 20A	344	356	60 to 100	7.8	6.7	0.05	0.43	5	7.5	9.1	0.7	0.3	0.0	17.5	1.6	0.03	0.8	10	0	11	170	4	0.0	0.3	2.30	0.10
21582327	RR 21	345	357	0 to 5	6.2	5.3	0.06	1.36	12	6.0	1.5	0.7	0.0	0.1	8.3	0.1	0.50	4.0	7	5	35	30	4	4.9	0.6	0.37	3.60
21582328	RR 21	345	357	5 to 15	6.4	5.3	0.03	0.68	13	3.4	0.9	0.5	0.0	0.1	4.9	0.2	0.15	3.7	8	0	35	40	1	0.2	0.9	0.21	0.65
21582329	RR 21	345	357	15 to 30	7	5.8	0.02	0.19	15	6.5	1.7	0.5	0.0	0.0	8.7	0.1	0.17	3.8	10	0	24	64	1	0.1	1.2	0.44	0.56
21582330	RR 21	345	357	30 to 42	7.3	6.1	0.02	0.19	5	6.0	1.7	0.5	0.0	0.0	8.2	0.1	0.16	3.5	10	0	23	52	1	0.1	0.8	0.43	0.39
21582331	RR 21	345	357	42 to 58	7.5	6.3	0.02	0.45	16	4.1	1.2	0.3	0.0	0.0	5.6	0.2	0.11	3.4	10	0	20	33	1	0.1	0.6	0.33	0.18
21582332	RR 21	345	357	60 to 85	7.7	6.6	0.02	0.17	12	8.0	2.5	0.4	0.0	0.0	11.0	0.2	0.11	3.2	10	0	14	55	1	0.0	1.0	0.50	0.31
21582333	RR 22A	346	358	0 to 5	7.5	7.1	0.24	2.28	12	11.0	1.0	0.8	0.0	0.0	12.8	0.1	3.07	11.1	8	17	73	68	5	1.7	0.4	0.49	2.30
21582334	RR 22A	346	358	5 to 15	7.4	6.9	0.13	1.24	20	7.5	1.3	0.5	0.0	0.0	9.3	0.1	1.21	5.8	6	3	64	80	9	0.5	0.6	0.70	1.10
21582335	RR 22A	346	358	15 to 30	7.6	6.9	0.08	1.10	12	5.0	1.5	0.3	0.0	0.0	6.9	0.1	0.55	3.3	6	2	32	50	5	1.6	2.7	0.80	0.77
21582336	RR 22A	346	358	30 to 55	7.9	7	0.05	0.69	15	3.3	1.5	0.3	0.0	0.0	5.1	0.4	0.13	2.2	8	1	11	33	2	0.1	0.3	0.67	0.33
21582337	RR 22A	346	358	60 to 100	8.6	7.8	0.28	2.41	150	15.0	17.0	0.6	2.2	0.0	34.8	6.3	0.04	0.9	0	1	3	67	23	0.0	0.4	0.58	0.31
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21582572	WIL 14	348	391	0 to 5	7.2	7.0	0.48	4.13	74	17.0	12.0	1.0	0.4	0.1	30.5	1.4	0.34	1.4	9	3	33	86	4	5.80	1.40	0.86	3.80
21582573	WIL 14	348	391	5 to 15	7.1	6.3	0.09	0.77	21	10.0	9.9	1.0	0.3	0.0	21.2	1.6	0.06	1.0	6	1	5	63	2	1.20	1.60	1.00	1.40
21582574	WIL 14	348	391	15 to 25	8.2	7.6	0.23	1.98	50	14.0	13.0	1.0	0.7	0.0	28.7	2.4	0.09	1.1	0	1	5	76	2	0.52	1.40	1.30	1.10
21582575	WIL 14	348	391	30 to 50	9.1	8.4	0.54	4.05	440	20.0	19.0	0.7	3.0	0.0	42.7	7.0	0.08	1.1	0	1	3	130	11	0.12	1.30	2.60	0.47
21582576	WIL 14	348	391	50 to 60	9.2	8.5	0.70	5.25	670	20.0	23.0	0.7	4.3	0.0	48.0	9.0	0.08	0.9	0	1	3	120	16	0.17	1.30	2.70	0.38
21																											

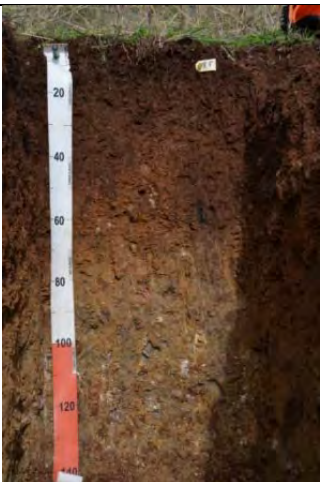
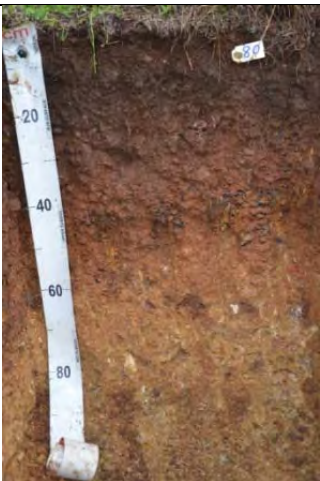
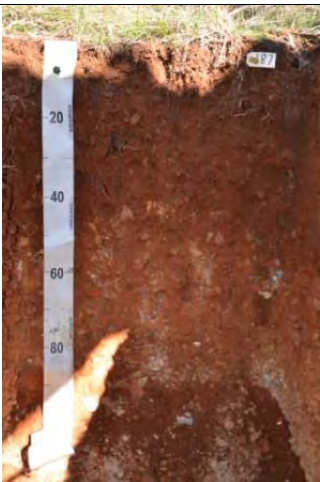
Lab ID	BHPB Site ID	Map ID Feb '14	Site Photo ID	Depth, cm	pH 1:5 water	pH CaCl2	EC 1:5 dS/m	ECe dS/m	Chloride mg/kg	Exchangeable cations, meq/100g					CEC	ESP	ESI	Ca/Mg	ASWAT score	NO3-N mg/kg	Colwell-P mg/kg	PBI	SO4-S mg/kg	DTPA-Zn mg/kg	DTPA-Cu mg/kg	Boron mg/kg	Org. C %
										Ca	Mg	K	Na	Al													
21371785	PRM6	358	294	5 to 15	6.1	4.9	0.04	0.38	14	5.0	4.4	1.6	0.1	0.1	11.2	0.9	0.04	1.1	7	2	6	72	3	0.6	1.4	0.7	1.70
21371786	PRM6	358	294	15 to 30	8.3	7.3	0.09	0.60	24	9.5	19.0	1.3	1.1	0.0	30.9	3.6	0.03	0.5	6	3	3	130	2	0.1	1.5	3.2	0.47
21371787	PRM6	358	294	30 to 60	9.0	8.3	0.29	1.94	38	19.0	22.0	0.8	2.3	0.0	44.1	5.2	0.06	0.9	4	3	3	170	3	0.0	1.2	5.4	0.38
21371788	PRM6	358	294	60 to 100	9.3	8.5	0.37	2.48	51	17.0	23.0	0.7	3.5	0.0	44.2	7.9	0.05	0.7	3	2	3	160	10	0.0	0.9	6.0	0.22
21371789	PRM7	359	295	0 to 5	6.2	5.4	0.05	0.48	15	4.1	1.5	0.9	0.0	0.1	6.6	0.2	0.33	2.7	6	1	7	65	3	0.4	0.7	0.3	1.30
21371790	PRM7	359	295	5 to 15	6.0	4.8	0.03	0.29	15	3.4	1.1	0.8	0.0	0.1	5.4	0.2	0.16	3.1	5	1	5	87	3	0.4	0.9	0.4	0.81
21371791	PRM7	359	295	15 to 30	5.7	4.8	0.03	0.26	11	5.5	2.1	0.6	0.0	0.1	8.3	0.1	0.25	2.6	4	1	3	92	3	0.1	0.8	0.5	0.53
21371792	PRM7	359	295	30 to 60	6.4	5.4	0.03	0.23	5	6.5	4.0	0.4	0.0	0.1	11.0	0.4	0.08	1.6	3	1	3	110	3	0.0	0.6	0.5	0.29
21371793	PRM7	359	295	60 to 100	6.4	5.6	0.06	0.40	14	8.5	9.1	0.4	0.3	0.0	18.3	1.6	0.04	0.9	0	1	3	200	15	0.0	0.2	0.6	0.10
21442224	CORJ 1	360	125	0 to 5	6.6	5.6	0.09	0.68	11	12.0	11.0	1.8	0.2	0.0	25.0	1.0	0.09	1.1	8	15	54	89	3	0.7	2.2	0.70	2.0
21442225	CORJ 1	360	125	5 to 15	6.5	5.6	0.13	0.75	21	12.0	11.0	1.4	0.6	0.0	25.0	2.4	0.05	1.1	3	24	31	81	6	0.6	2.3	0.69	1.5
21442226	CORJ 1	360	125	15 to 30	7.8	6.6	0.08	0.46	14	15.0	14.0	1.0	1.2	0.0	31.2	3.8	0.02	1.1	13	5	8	75	2	0.1	1.8	0.89	0.8
21442227	CORJ 1	360	125	30 to 60	9.1	8.2	0.25	1.45	34	21.0	19.0	0.8	2.9	0.0	43.7	6.6	0.04	1.1	1	1	8	87	3	0.1	1.3	1.60	0.4
21442228	CORJ 1	360	125	60 to 100	9.4	8.5	0.37	2.78	140	26.0	21.0	0.8	5.2	0.0	53.0	9.8	0.04	1.2	4	0	22	90	3	0.1	1.3	2.40	0.3
21442229	CORJ 1	360	125	200	9	8.3	0.7	6.02	780	19.0	21.0	0.8	6.5	0.0	47.3	13.7	0.05	0.9	2	0	23	48	19	0.2	1.1	1.00	0.2
21442230	CORJ 1	360	125	300	9	8.2	0.65	5.59	670	13.0	18.0	0.5	7.4	0.0	38.9	19.0	0.03	0.7	3	1	36	58	19	0.2	0.8	0.77	0.1
21371728	PRM8	361	283	0 to 5	6.8	5.7	0.06	0.40	14	8.5	8.2	1.2	0.6	0.0	18.5	3.3	0.02	1.0	10	1	21	91	1	0.6	2.1	0.8	1.20
21371729	PRM8	361	283	5 to 15	7.5	6.4	0.08	0.54	29	11.0	12.0	1.2	1.0	0.0	25.2	4.0	0.02	0.9	13	2	12	89	1	0.3	1.9	1.0	1.00
21371730	PRM8	361	283	15 to 30	8.4	7.3	0.13	0.87	50	13.0	15.0	1.1	1.7	0.0	30.8	5.5	0.02	0.9	13	1	3	79	1	0.1	2.0	1.3	0.64
21371731	PRM8	361	283	30 to 60	9.0	8.3	0.36	2.41	210	24.0	16.0	0.8	2.5	0.0	43.3	5.8	0.06	1.5	0	1	3	100	18	0.1	1.6	2.4	0.52
21371732	PRM8	361	283	60 to 100	8.9	8.4	0.63	4.22	580	23.0	19.0	0.9	3.9	0.0	46.8	8.3	0.08	1.2	0	0	16	98	52	0.1	1.2	2.9	0.28
21371733	PRM9	362	284	0 to 5	6.8	6.2	0.10	0.67	15	14.0	7.0	1.2	0.4	0.0	22.6	1.6	0.06	2.0	7	2	51	99	2	0.5	2.7	0.8	2.10
21371734	PRM9	362	284	5 to 15	7.2	6.3	0.08	0.54	13	21.0	11.0	1.7	0.4	0.0	34.1	1.1	0.07	1.9	6	3	42	130	1	0.2	2.7	1.0	1.40
21371735	PRM9	362	284	15 to 30	7.6	6.7	0.07	0.47	5	23.0	12.0	1.5	0.6	0.0	37.1	1.5	0.05	1.9	7	1	24	140	1	0.2	2.4	1.2	1.00
21371736	PRM9	362	284	30 to 50	7.8	7.1	0.09	0.60	5	24.0	13.0	1.3	1.0	0.0	39.3	2.5	0.04	1.9	6	0	32	140	1	0.2	2.4	1.3	0.84
21371737	PRM9	362	284	50 to 80	8.8	8.1	0.22	1.47	27	33.0	13.0	1.0	1.4	0.0	48.4	2.9	0.08	2.5	0	0	26	180	1	0.1	1.5	2.2	0.41
21371738	PRM9	362	284	80 to 100	8.9	8.0	0.14	3.18	56	13.0	7.6	0.7	1.0	0.0	22.3	4.5	0.03	1.7	3	0	40	77	1	0.1	0.6	1.6	0.10
21371739	PRM10	363	285	0 to 5	6.0	4.8	0.05	0.43	5	5.5	2.9	1.2	0.1	0.1	9.8	0.6	0.08	1.9	7	4	18	90	3	0.9	1.7	0.7	1.70
21371740	PRM10	363	285	5 to 15	5.8	4.9	0.05	0.43	5	6.0	2.8	1.1	0.1	0.1	10.1	0.6	0.08	2.1	6	9	14	89	2	0.7	1.7	0.8	1.40
21371741	PRM10	363	285	15 to 30	6.4	5.4	0.03	0.26	5	9.0	3.4	1.0	0.1	0.1	13.6	0.5	0.06	2.7	6	4	11	58	1	0.1	1.		

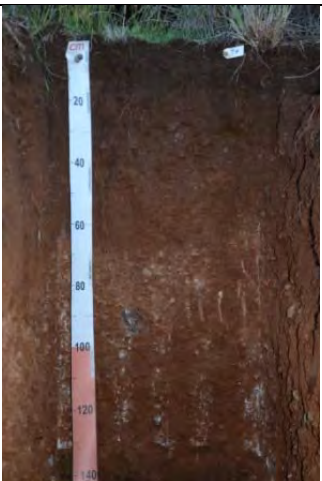
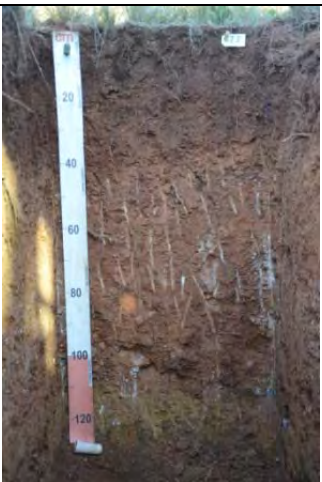
Lab ID	BHPB Site ID	Map ID Feb '14	Site Photo ID	Depth, cm	pH 1:5 water	pH CaCl2	EC 1:5 dS/m	ECe dS/m	Chloride mg/kg	Exchangeable cations, meq/100g					CEC	ESP	ESI	Ca/Mg	ASWAT score	NO3-N mg/kg	Colwell-P mg/kg	PBI	SO4-S mg/kg	DTPA-Zn mg/kg	DTPA-Cu mg/kg	Boron mg/kg	Org. C %
										Ca	Mg	K	Na	Al													
21442238	CMAW 2	374	127	15 to 30	7.6	6.2	0.06	0.40	16	8.0	7.2	0.7	1.2	0.0	17.1	7.0	0.01	1.1	15	2	10	51	1	0.1	0.8	0.56	0.4
21442239	CMAW 2	374	127	30 to 60	8.9	7.5	0.1	0.67	44	11.0	12.0	0.7	2.7	0.0	26.4	10.2	0.01	0.9	14	1	19	52	1	0.0	0.9	1.30	0.2
21442240	CMAW 2	374	127	60 to 100	9.4	8.5	0.45	3.87	360	12.0	12.0	0.7	4.8	0.0	29.5	16.3	0.03	1.0	6	2	30	64	5	0.1	0.6	2.60	0.1
21371760	PRM17	375	127	0 to 5	6.2	5.2	0.04	0.55	5	3.4	1.2	0.9	0.0	0.1	5.6	0.2	0.22	2.8	6	2	21	41	3	1.3	0.7	0.3	1.70
21371761	PRM17	375	289	5 to 15	6.2	5.0	0.03	0.41	5	2.0	0.7	0.7	0.0	0.1	3.4	0.3	0.10	3.0	6	2	14	38	2	0.2	0.5	0.3	0.74
21371762	PRM17	375	289	15 to 30	6.7	5.2	0.01	0.23	5	1.6	0.6	0.4	0.0	0.1	2.8	0.4	0.03	2.6	9	1	10	36	1	0.0	0.5	0.2	0.23
21371763	PRM17	375	289	30 to 60	7.1	5.9	0.02	0.45		1.6	1.1	0.4	0.0	0.0	3.1	1.3	0.02	1.5	10	1	10	34	1	0.0	0.3	0.3	0.16
21371754	PRM18A	375	289	60 to 100	7.7	6.4	0.02	0.19	5	2.3	2.6	0.3	0.1	0.0	5.3	2.1	0.01	0.9	9	1	15	66	2	0.0	0.3	0.4	0.10
21371759	PRM17	376	288	0 to 5	6.4	5.9	0.28	3.864	63	11.0	2.8	2.6	0.0	0.0	16.4	0.2	1.15	3.9	5	35	220	81	25	12.0	0.9	1.1	6.30
21371755	PRM18A	376	288	5 to 15	5.9	5.2	0.21	2.898	16	6.0	1.9	3.2	0.0	0.1	11.2	0.1	2.35	3.2	6	46	320	110	15	6.2	1.4	1.1	2.40
21371756	PRM18A	376	288	15 to 30	7.5	7.0	0.27	2.322	23	12.0	2.1	2.9	0.0	0.0	17.0	0.2	1.53	5.7	4	17	230	120	12	1.8	1.4	1.5	1.90
21371757	PRM18A	376	288	30 to 60	7.7	6.9	0.12	1.032	21	5.5	1.6	2.9	0.0	0.0	10.0	0.3	0.40	3.4	10	2	90	66	6	0.4	0.9	1.4	0.60
21371758	PRM18A	376	288	60 to 100	8.8	8.2	0.20	1.72	87	3.5	1.2	1.0	0.1	0.0	5.8	1.4	0.14	2.9	5	7	19	42	11	0.1	0.2	0.8	0.28
		377	138	0 to 5																							
		377	138	5 to 15																							
		377	138	15 to 30																							
		377	138	30 to 60																							
21442283	CODF 2a	378	139	0 to 5	6.8	5.7	0.06	0.83	5	4.6	1.2	1.6	0.0	0.0	7.4	0.1	0.44	3.8	5	9	46	66	2	0.8	0.9	0.52	1.5
21442284	CODF 2a	378	139	5 to 12	6.4	5.3	0.04	0.55	5	4.0	0.9	1.1	0.0	0.1	6.1	0.2	0.24	4.4	3	9	28	66	2	0.4	0.9	0.39	1.0
21442285	CODF 2a	378	139	15 to 30	6.6	5.4	0.02	0.28	5	3.2	0.8	0.6	0.0	0.1	4.7	0.2	0.09	4.0	4	3	16	58	1	0.1	0.7	0.32	0.3
21442286	CODF 2a	378	139	30 to 60	7.4	6.1	0.01	0.14	5	3.2	0.8	0.4	0.0	0.0	4.4	0.2	0.04	3.9	7	2	11	60	1	0.0	0.4	0.27	0.1
21442287	CODF 2a	378	139	60 to 100	8.3	7.2	0.02	0.19	5	4.0	1.6	0.4	0.0	0.0	6.0	0.2	0.12	2.5	8	1	16	97	1	0.0	0.3	0.91	0.1
21442197	CMAW 3a	379	120	0 to 5	7.9	7	0.13	0.98	13	19.0	15.0	1.6	1.3	0.0	36.9	3.5	0.04	1.3	7	10	34	97	3	0.4	2.2	0.89	1.5
21442198	CMAW 3a	379	120	5 to 15	7.9	7.1	0.18	1.35	15	19.0	15.0	1.7	1.4	0.0	37.1	3.8	0.05	1.3	9	34	35	110	4	0.4	2.2	0.85	1.4
21442199	CMAW 3a	379	120	15 to 30	8.3	7.2	0.17	1.28	38	19.0	16.0	1.1	2.8	0.0	38.9	7.2	0.02	1.2	14	22	12	130	4	0.2	2.6	1.00	1.0
21442200	CMAW 3a	379	120	30 to 60	9	8.1	0.43	3.23	230	15.0	20.0	0.8	6.1	0.0	41.9	14.6	0.03	0.8	12	9	12	130	9	0.2	2.7	1.40	0.8
21442201	CMAW 3a	379	120	60 to 100	9.2	8.5	0.86	7.40	640	22.0	18.0	0.6	8.7	0.0	49.3	17.6	0.05	1.2	12	0	26	98	86	0.1	1.7	1.50	0.3
21442202	CMAW 3a	379	120	200	9.1	8.5	1.35	11.61	1100	15.0	22.0	0.7	13.0	0.0	50.7	25.7	0.05	0.7	1	1	32	82	280	0.2	1.5	1.30	0.2
21442203	CMAW 3a	379	120	300	8.9	8.3	1.43	12.30	1300	10.0	23.0	0.7	13.0	0.0	46.7	27.8	0.05	0.4	1	1	41	80	260	0.3	1.8	1.40	0.2
		380	130	0 to 5																							
		380	130	5 to 15																							
		380	130	15 to 30																							
21371013	GC1	381	152	0 to 5	5.8	5	0.12	1.66	5	7.0	1.7	1.5	0.0	0.1	10.3	0.1	1.24	4.1	5	35	55	5					

Lab ID	BHPB Site ID	Map ID Feb '14	Site Photo ID	Depth, cm	pH 1:5 water	pH CaCl2	EC 1:5 dS/m	ECe dS/m	Chloride mg/kg	Exchangeable cations, meq/100g					CEC	ESP	ESI	Ca/Mg	ASWAT score	NO3-N mg/kg	Colwell-P mg/kg	PBI	SO4-S mg/kg	DTPA-Zn mg/kg	DTPA-Cu mg/kg	Boron mg/kg	Org. C %
										Ca	Mg	K	Na	Al													
21442296	CMAW 12a	391	141	30 to 60	9.5	8.5	0.21	1.41	5	25.0	28.0	1.1	1.7	0.0	55.8	3.0	0.07	0.9		0	3	75	1	0.1	0.2	1.10	0.2
21442297	CMAW 12a	391	141	60 to 100	9.8	8.9	0.37	2.48	99	12.0	39.0	1.0	5.2	0.0	57.2	9.1	0.04	0.3	5	1	6	43	3	0.2	0.2	2.80	
21442310	CMAW 13	392	144	0 to 5	5.8	5.1	0.13	1.24	5	8.5	2.5	2.1	0.0	0.1	13.2	0.2	0.57	3.4	6	35	130	88	5	5.9	1.1	0.67	3.9
21442311	CMAW 13	392	144	5 to 15	6.3	5.2	0.05	0.48	5	5.5	1.9	1.0	0.0	0.1	8.5	0.4	0.14	2.9	4	9	44	66	2	0.5	1.2	0.51	1.5
21442312	CMAW 13	392	144	15 to 30	6.7	5.6	0.03	0.29	5	5.5	1.6	0.8	0.1	0.0	8.0	0.9	0.03	3.4	5	4	23	63	2	0.2	0.8	0.50	0.7
21442313	CMAW 13	392	144	40 to 60	8.1	6.9	0.07	0.67	10	11.0	11.0	1.4	0.8	0.0	24.2	3.4	0.02	1.0	11	0	3	220	2	0.0	0.4	1.60	0.2
21442314	CMAW 13	392	144	60 to 100	8.9	8.1	0.25	1.88	19	14.0	15.0	1.2	2.0	0.0	32.2	6.2	0.04	0.9	1	0	3	230	3	0.0	0.6	2.70	0.2
21442246	CMAW 5	393	129	0 to 5	7.8	7.3	0.4	2.68	35	32.0	14.0	1.8	1.3	0.0	49.1	2.6	0.15	2.3	9	25	52	140	6	1.0	2.3	1.30	3.8
21442247	CMAW 5	393	129	5 to 15	7.4	6.3	0.18	1.21	44	22.0	17.0	1.2	2.8	0.0	43.0	6.5	0.03	1.3	14	7	30	150	4	0.3	3.2	1.10	2.0
21442248	CMAW 5	393	129	15 to 30	7.9	6.8	0.21	1.22	51	25.0	21.0	1.1	4.1	0.0	51.2	8.0	0.03	1.2	15	6	27	140	4	0.3	2.9	1.20	1.7
21442249	CMAW 5	393	129	30 to 60	8.8	8.1	0.95	7.13	800	19.0	21.0	0.8	10.0	0.0	50.8	19.7	0.05	0.9	2	1	37	140	130	0.2	2.6	1.30	1.3
21442250	CMAW 5	393	129	60 to 100	8.6	8.2	1.91	14.33	870	27.0	21.0	0.9	12.0	0.0	60.9	19.7	0.10	1.3		2	56	140	700	0.2	2.0	1.50	0.4
21442256	CORG 3	394	132	0 to 5	8.6	7.9	0.2	1.72	12	29.0	13.0	2.0	0.5	0.0	44.5	1.1	0.19	2.2	2	10	120	150	4	0.6	1.0	1.40	1.8
21442257	CORG 3	394	132	5 to 15	7.4	6.4	0.08	0.69	25	12.0	8.2	1.0	0.6	0.0	21.8	2.6	0.03	1.5	1	4	20	77	2	0.1	2.4	0.65	1.1
21442258	CORG 3	394	132	15 to 30	8.3	6.9	0.08	0.54	13	13.0	12.0	0.9	1.4	0.0	27.3	5.1	0.02	1.1	15	2	15	73	1	0.1	2.3	0.77	0.6
21442259	CORG 3	394	132	30 to 60	9	8.1	0.26	1.74	55	19.0	21.0	1.1	3.8	0.0	44.9	8.5	0.03	0.9	12	1	26	130	2	0.1	2.7	1.40	0.5
21442260	CORG 3	394	132	60 to 100	9.3	8.4	0.3	2.58	87	21.0	16.0	0.6	3.0	0.0	40.6	7.4	0.04	1.3	7	1	29	97	1	0.1	1.0	1.20	0.2
21442204	CORG 4	395	121	0 to 5	7.6	6.6	0.15	1.01	22	12.0	11.0	1.4	1.0	0.0	25.4	3.9	0.04	1.1	1	27	72	86	6	0.6	2.1	0.88	1.5
21442205	CORG 4	395	121	5 to 15	8.1	7	0.19	1.27	82	15.0	15.0	1.0	2.6	0.0	33.6	7.7	0.02	1.0	14	10	29	91	8	0.2	2.1	1.00	1.2
21442206	CORG 4	395	121	15 to 30	9.3	8.6	0.89	5.96	700	18.0	19.0	0.6	9.1	0.0	46.7	19.5	0.05	0.9	12	2	36	88	110	0.1	0.9	1.40	0.2
21442207	CORG 4	395	121	30 to 60	9.1	8.4	0.75	5.03	630	20.0	25.0	0.9	10.0	0.0	55.9	17.9	0.04	0.8	2	2	37	120	49	0.1	1.9	1.80	0.6
21442208	CORG 4	395	121	60 to 100	8.8	7.7	0.26	2.24	150	14.0	18.0	0.7	4.8	0.0	37.5	12.8	0.02	0.8	1	7	13	110	5	0.2	2.1	1.20	1.0
		396	137	0 to 5																							
		396	137	5 to 15																							
		396	137	15 to 25																							
		396	137	30 to 60																							
21442330	GC 4b	397	148	0 to 5	6.2	5.6	0.17	2.35	10	10.0	3.3	1.4	0.0	0.0	14.7	0.1	2.50	3.0	3	48	48	46	6	6.4	1.0	1.00	4.4
21442331	GC 4b	397	148	5 to 15	6	4.8	0.05	0.69	11	1.7	1.3	1.0	0.0	0.1	4.1	0.2	0.20	1.3	5	4	13	60	3	0.6	1.8	0.70	1.3
21442332	GC 4b	397	148	15 to 30	5.8	4.5	0.04	0.38	5	1.7	1.0	0.9	0.0	0.2	3.8	0.3	0.15	1.7	3	4	6	71	2	0.4	1.9	0.67	1.0
21442333	GC 4b	397	148	40 to 60	5.6	4.3	0.02	0.17	5	1.7	1.0	0.4	0.0	0.4	3.5	0.9	0.02	1.7		0	6	77	1	0.1	0.9	0.31	0.4
21442334	GC 4b	397	148	60 to 100	6.2	4.9	0.01	0.09	5	1.4	2.6	0.5	0.0	0.1	4.6	0.4	0.02	0.5		0	8	87	1	0.0	0.6	0.29	0.2
21442298	CMAW 14	398	142	0 to 5	8.2	7.4	0.24	1.61	22	37.0	25.0	2.2	1.7	0.0	65.9	2.6	0.09	1.5	1	16	36	160	5	0.5	2.1	0.93	2.0
21442299	CMAW 14	398	142	5 to 15	8.1	7.3	0.24	1.61	37	35.0	26.0	1.9	1.6	0.0	64.5	2.5	0.10	1.3	1	17	20	170	9	0.4	1.9	0.97	1.8
21442300	CMAW 14	398	142	15 to 30	8.7	7.7	0.24	1.61	46	35.0	27.0	1.2	3.2	0.0	66.4	4.8	0.05	1.3	4	6	8	180	3	0.2	1.9	1.10	1.2
21442301	CMAW 14	398	142	30 to 60	8.9	8.1	0.46	3.08	180	30.0	32.0	1.1	7.0	0.0	70.1	10.0	0.05	0.9	12	2	9	170	21	0.2	1.9	1.20	1.0
21442302	CMAW 14	398	142	60 to																							

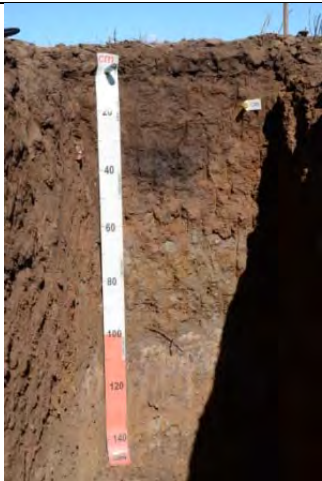
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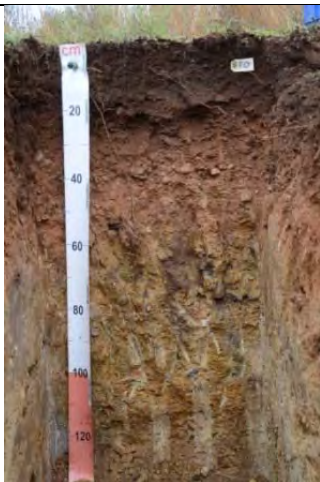
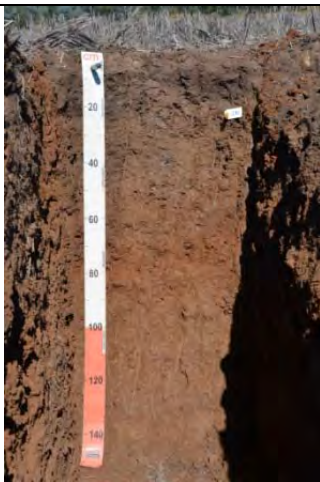
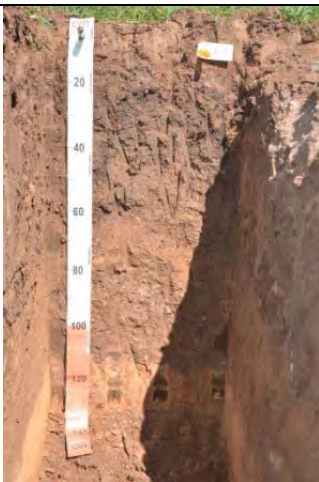
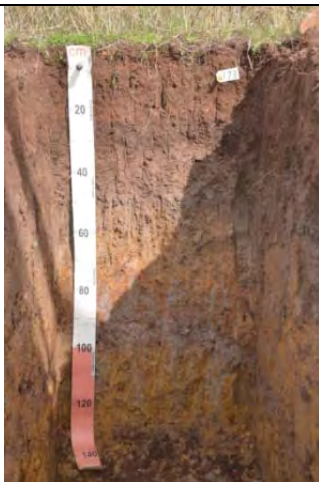
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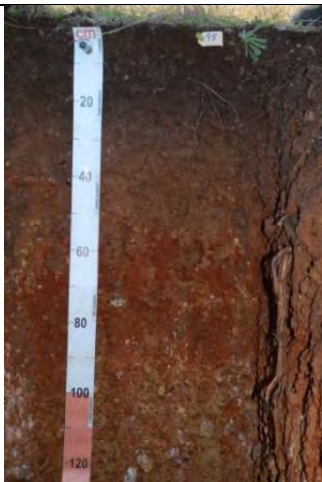
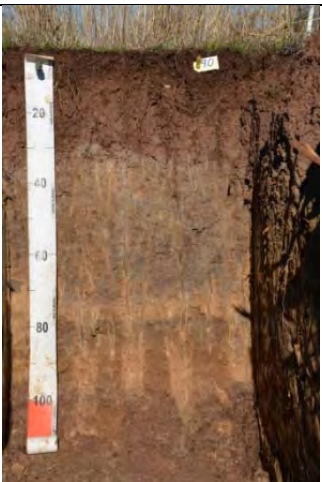
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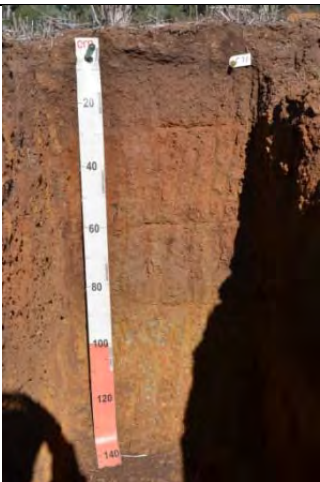
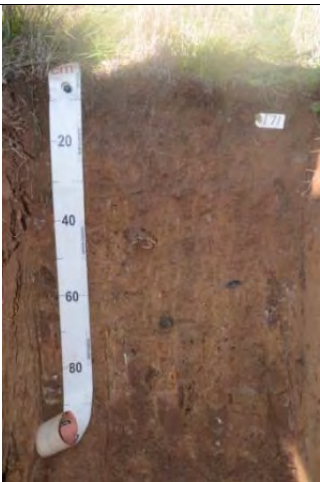
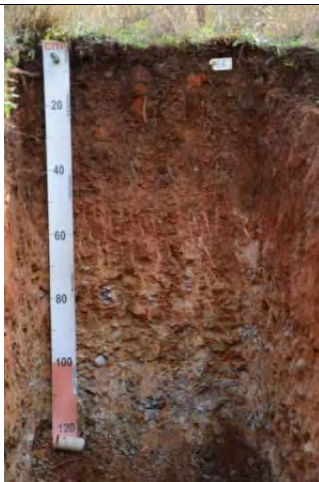
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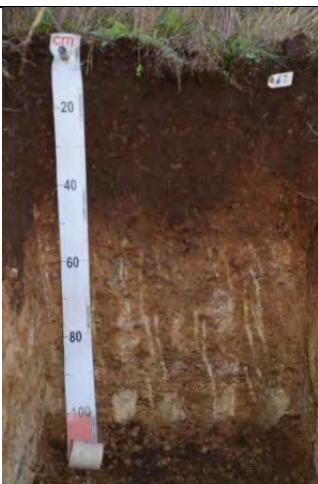
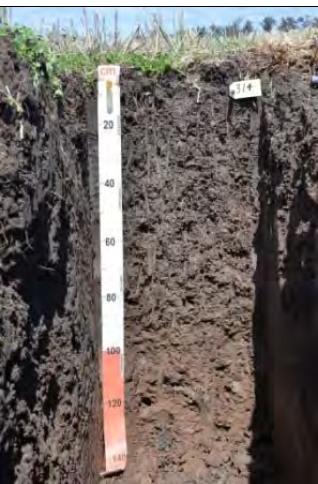
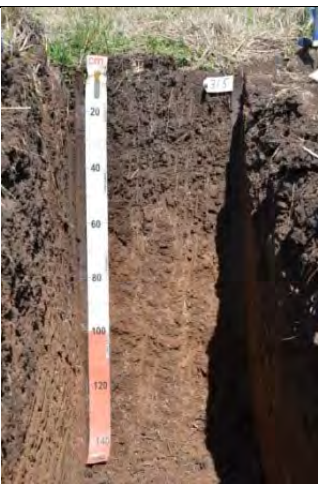
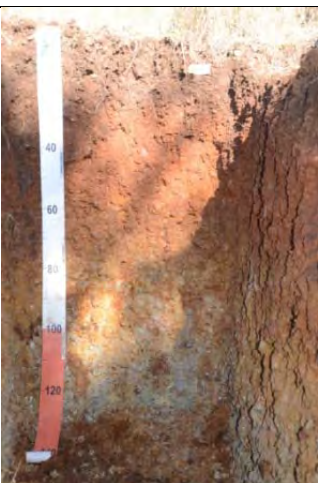
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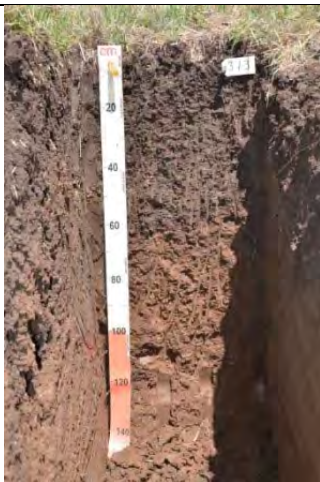
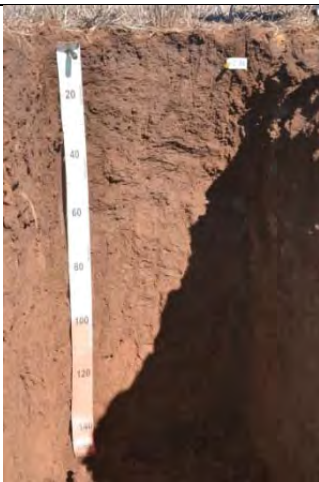
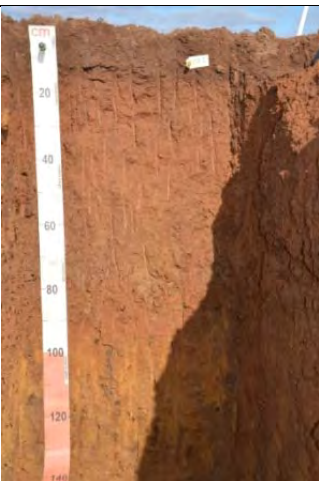
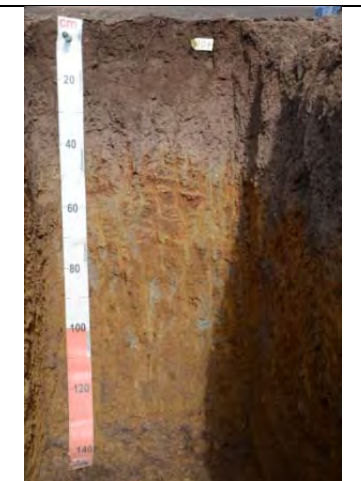
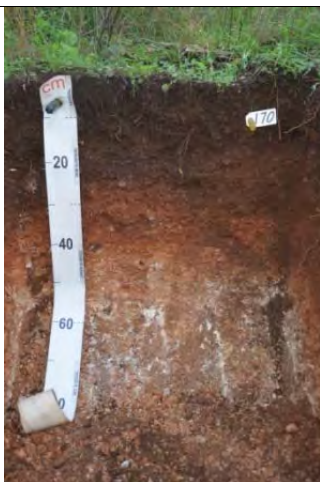
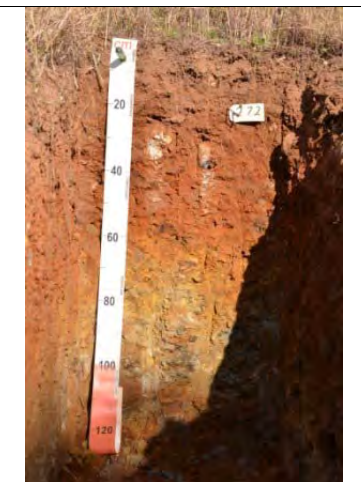
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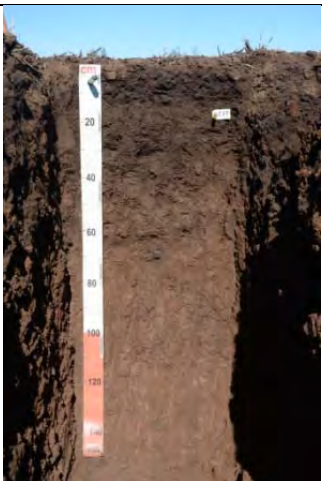
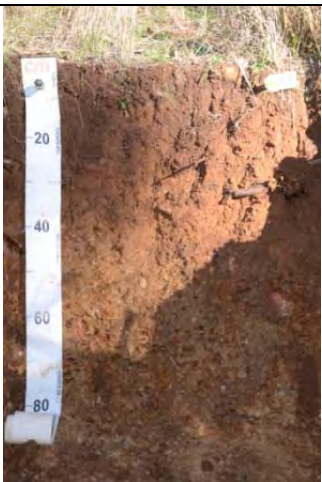
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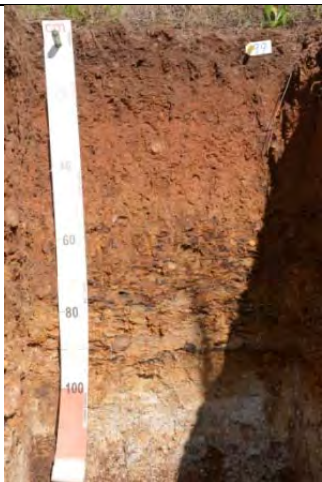
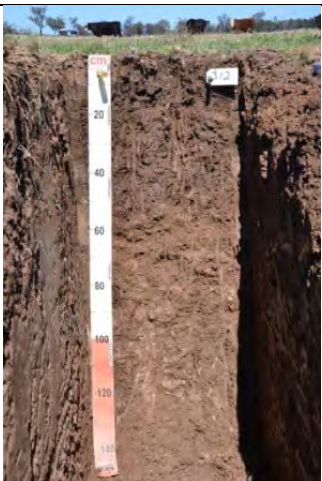
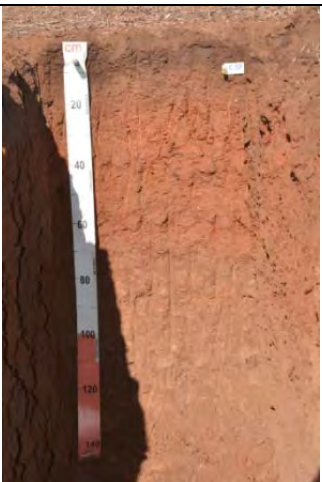
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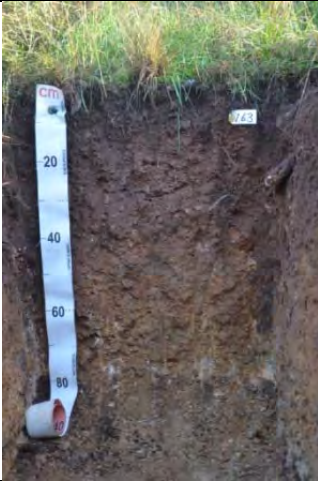
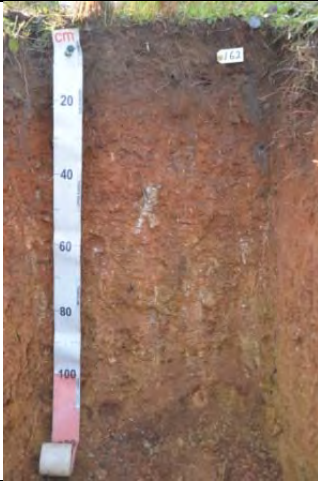
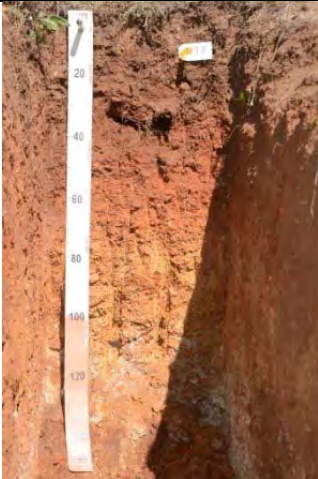
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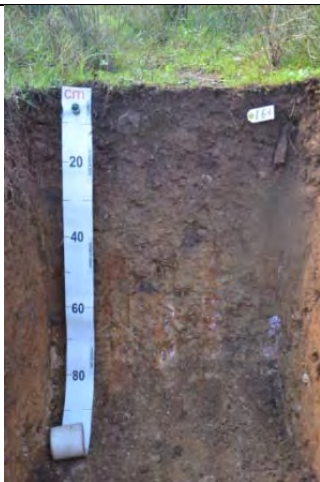
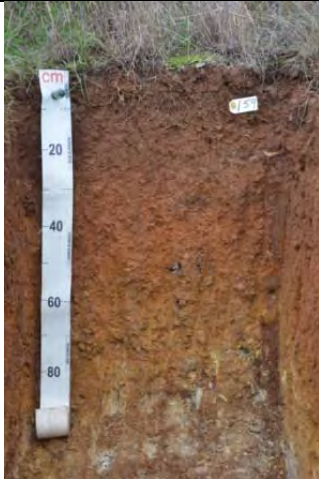
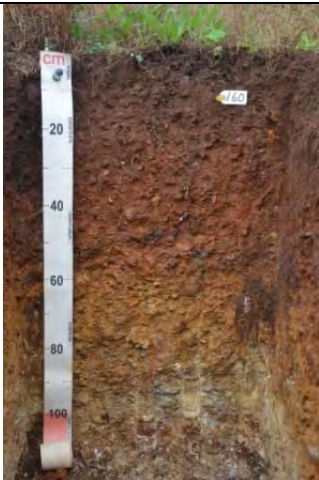
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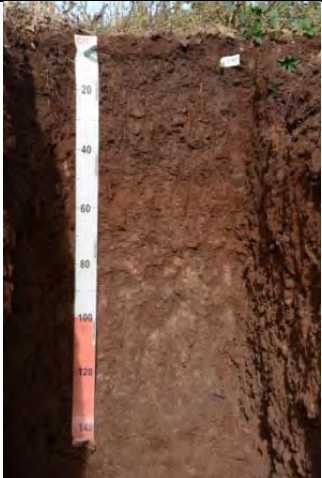
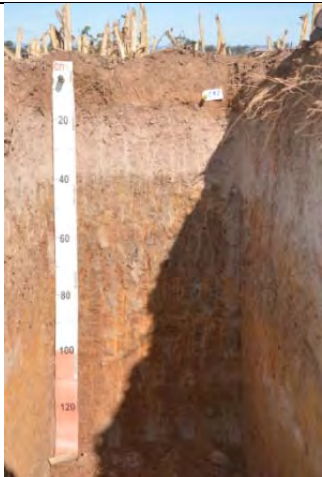
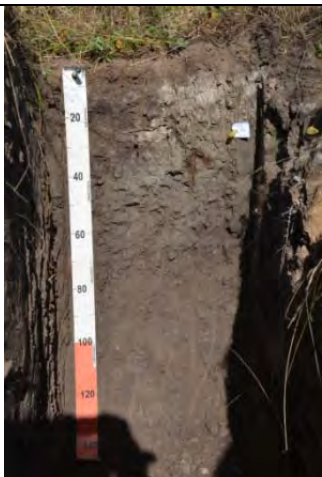
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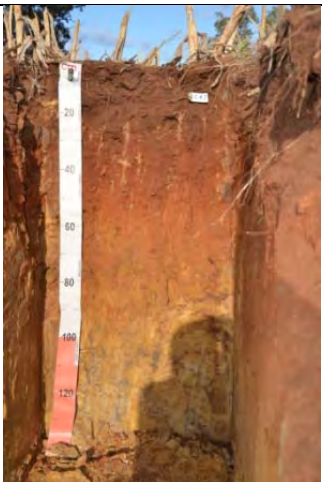
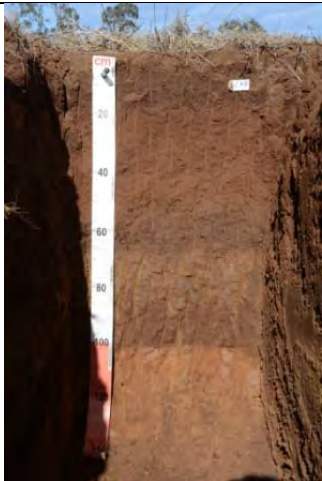
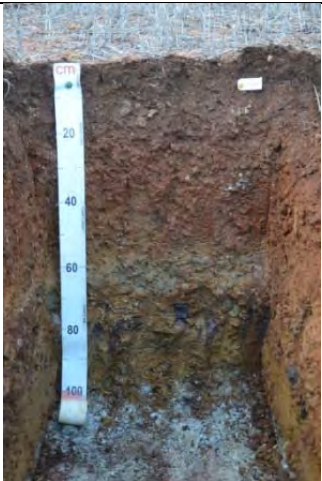
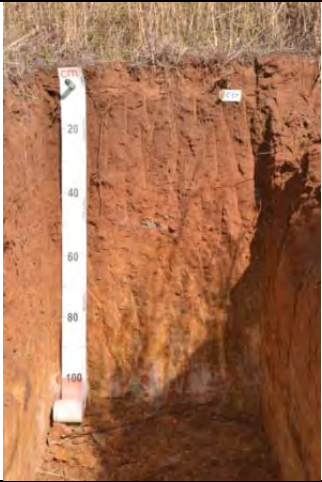
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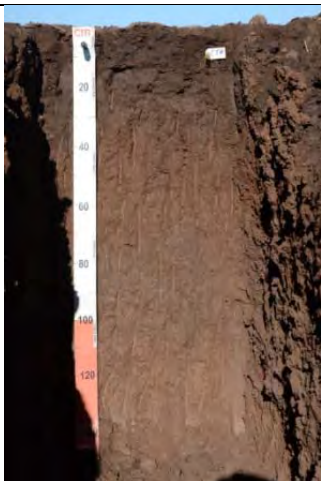
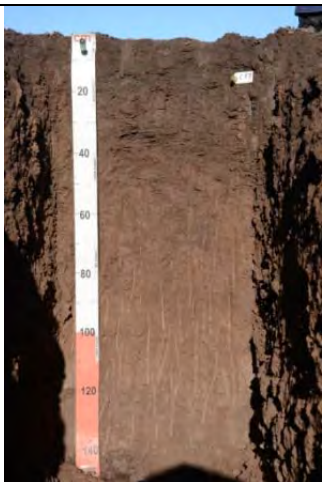
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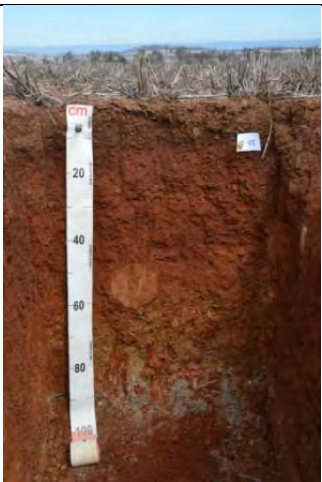
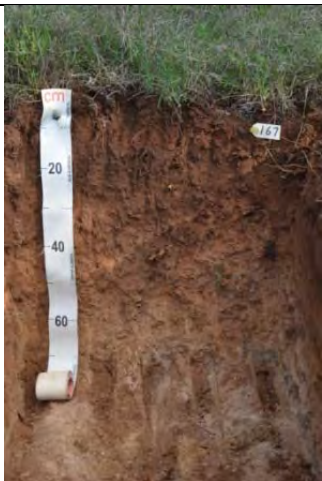
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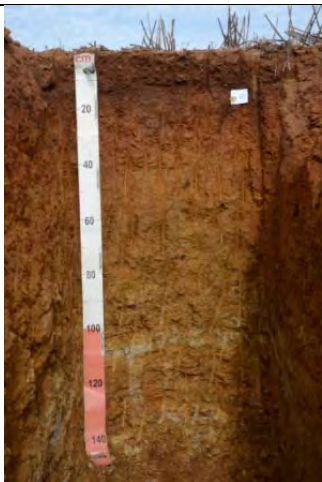
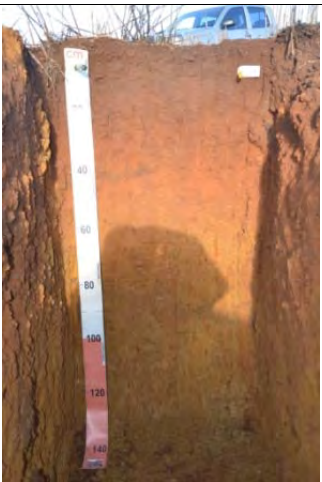
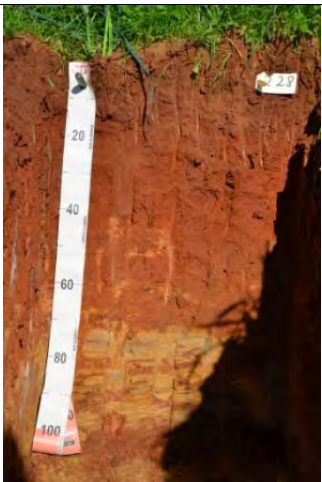
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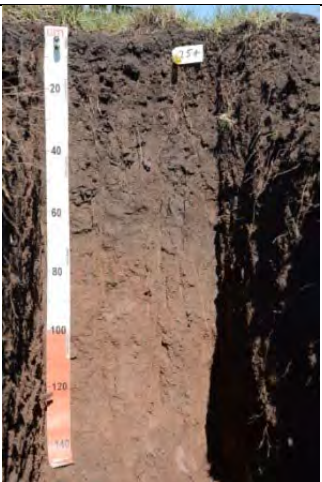
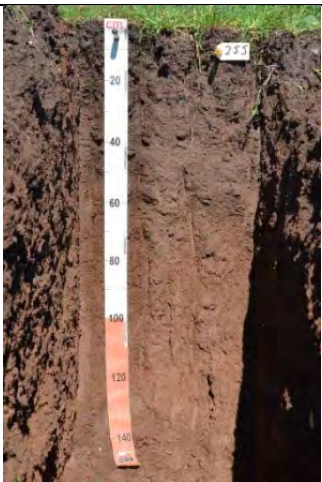
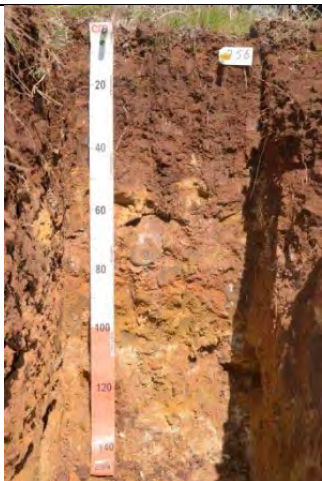
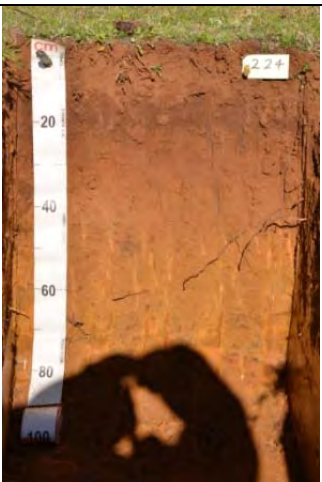
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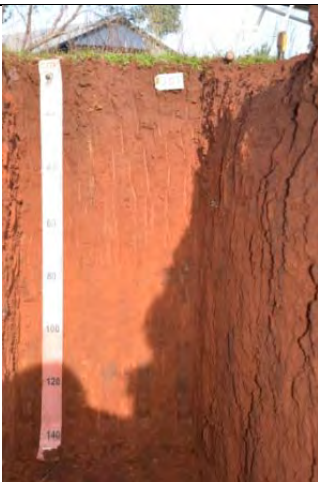
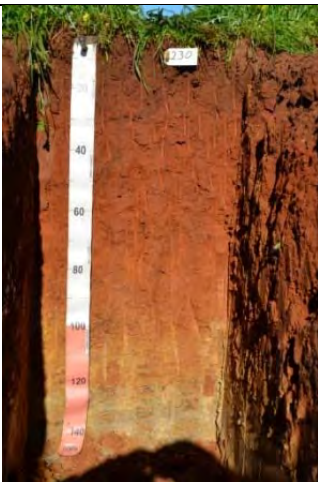
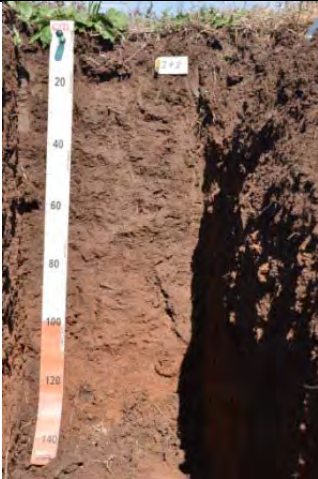
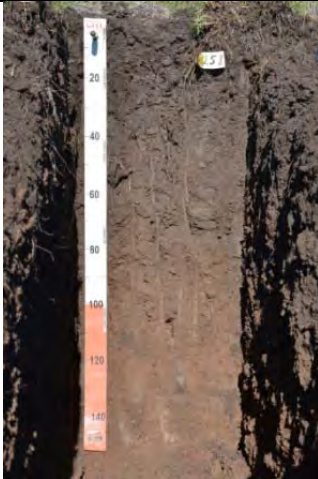
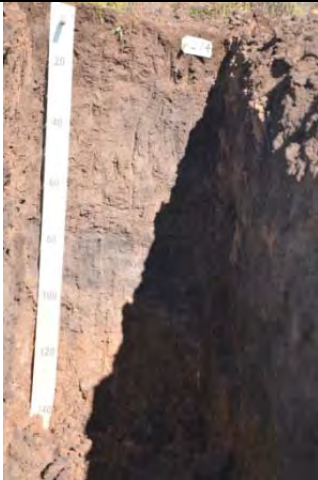
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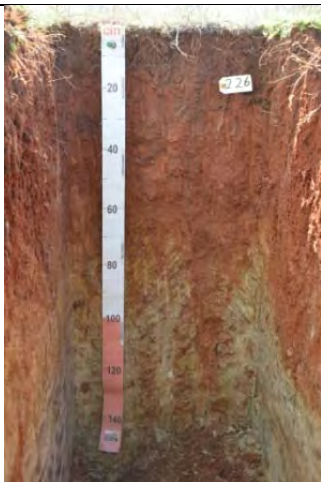
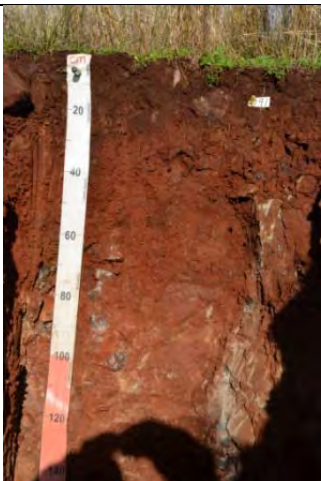
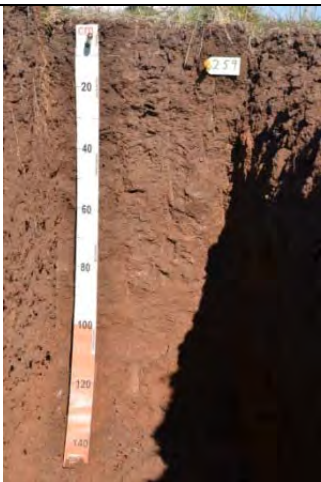
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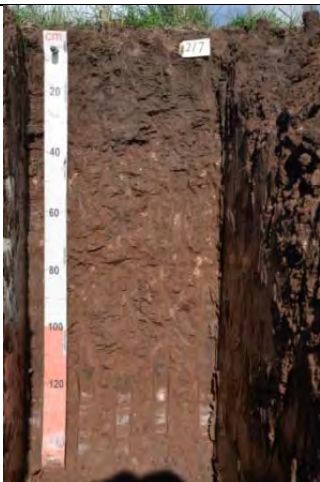
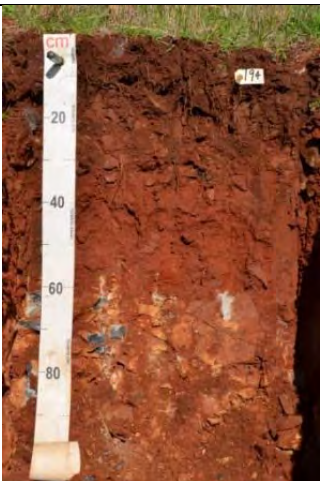
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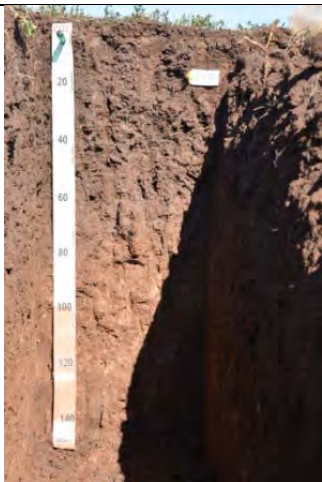
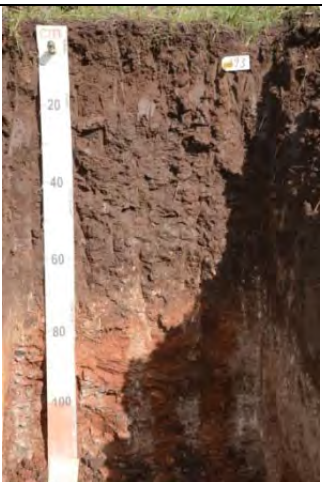
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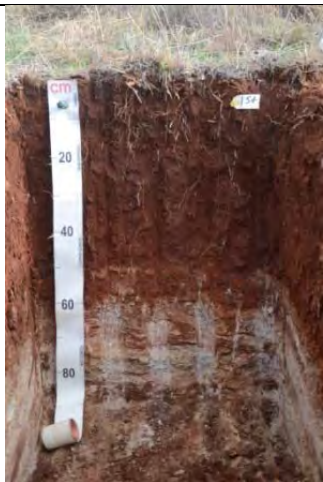
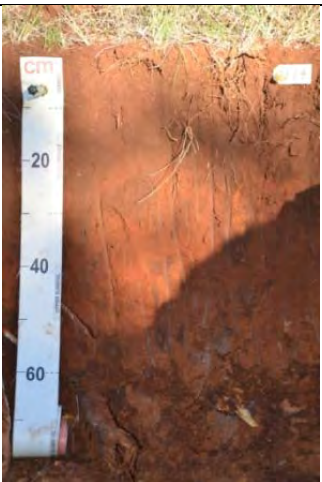
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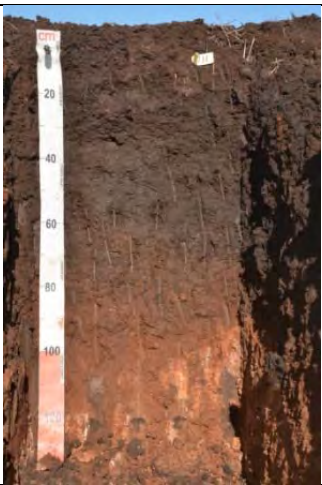
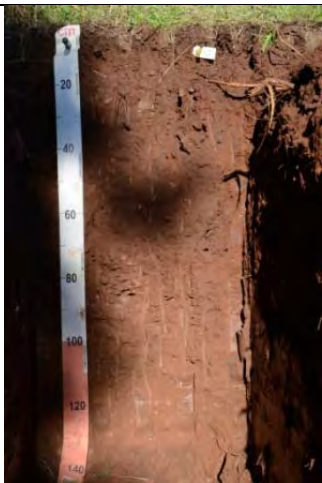
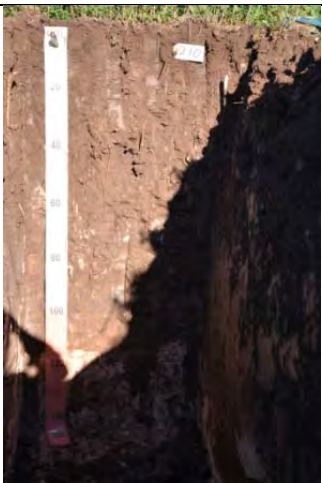
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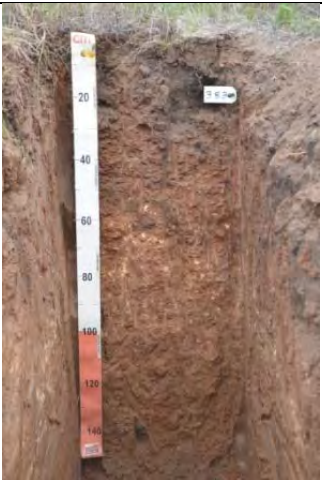
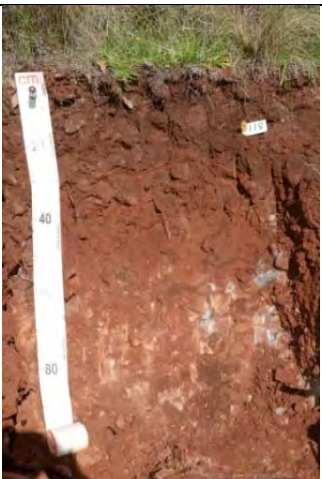
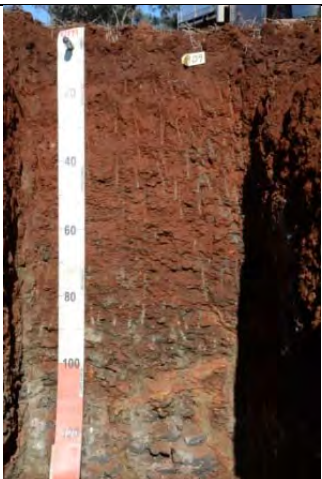
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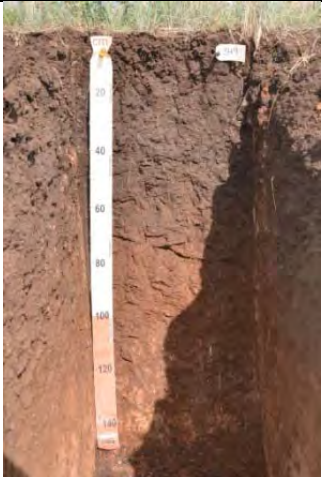
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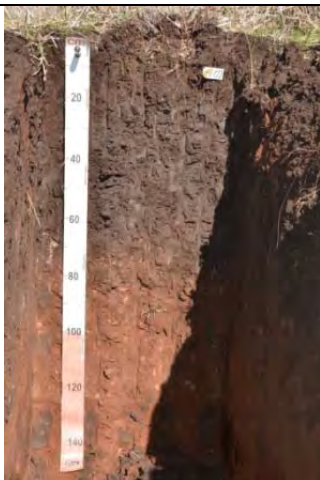
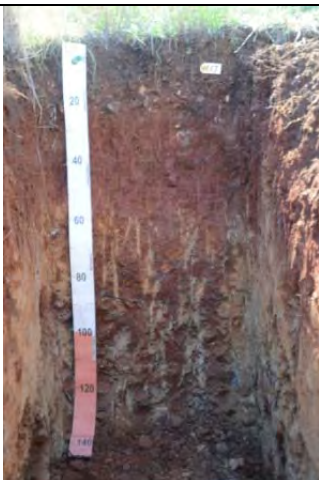
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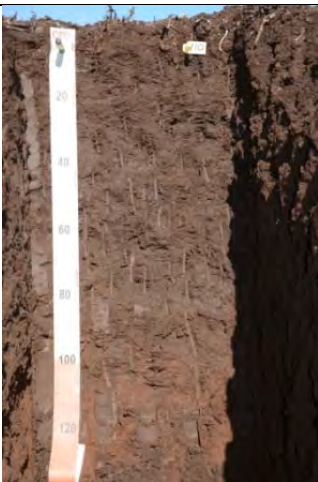
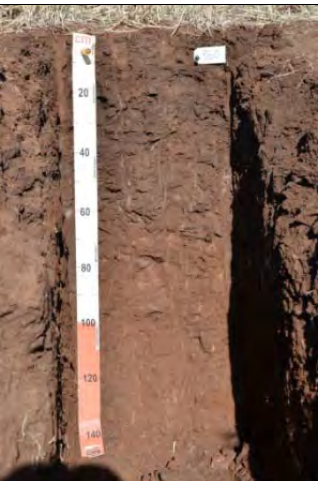
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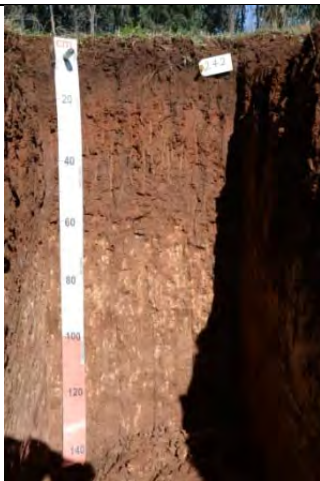
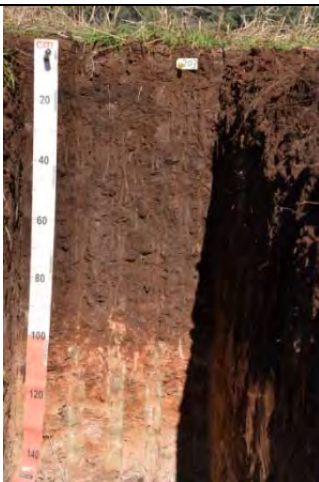
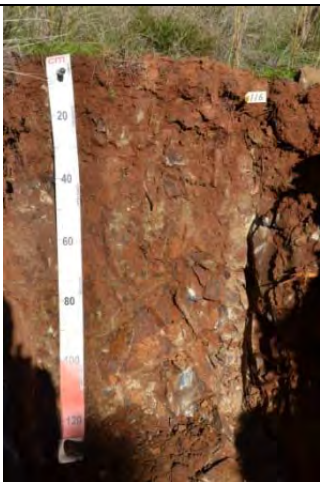
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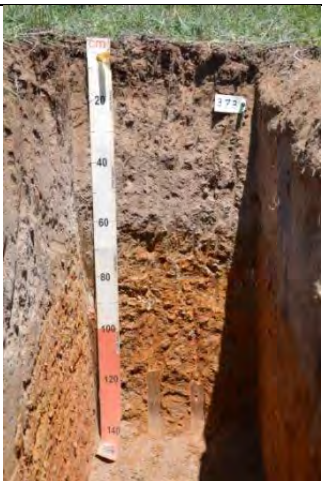
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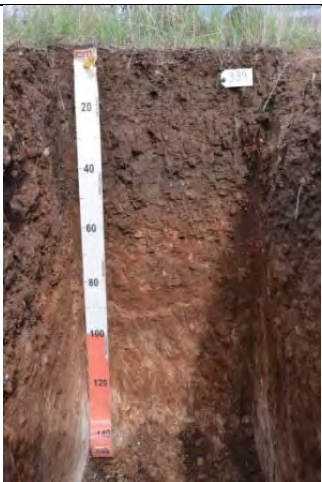
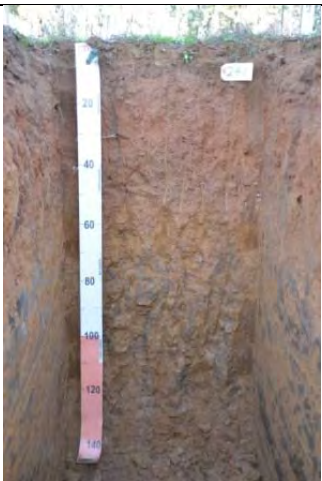
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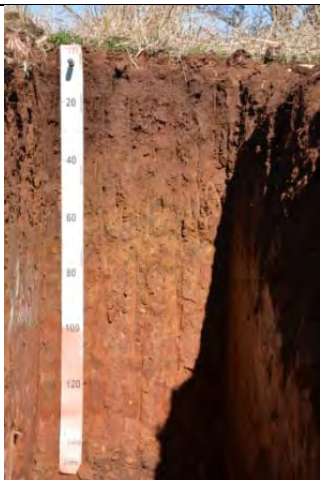
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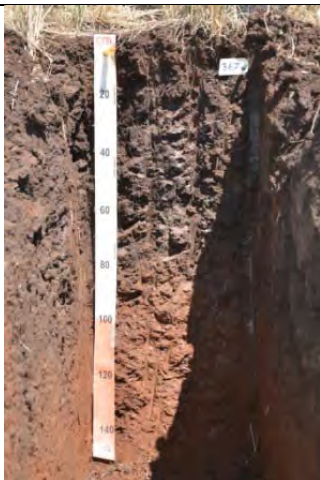
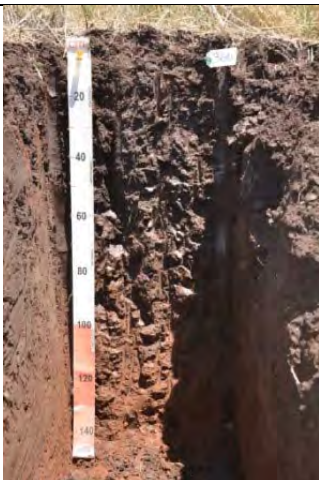
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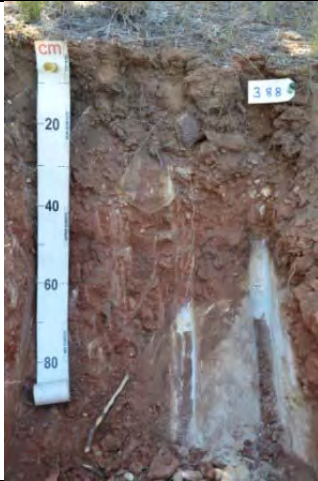
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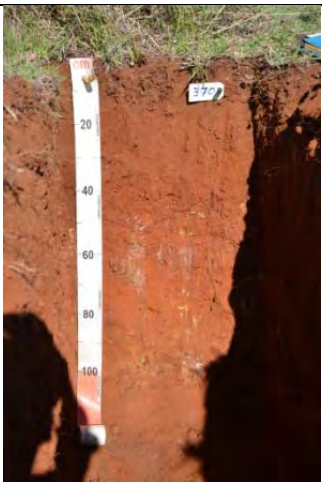
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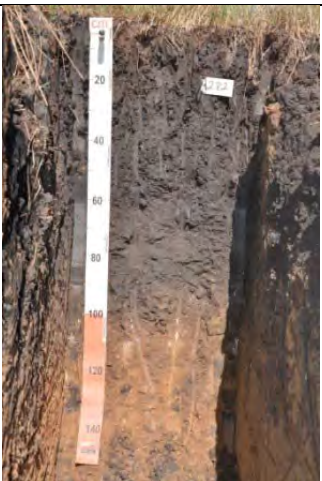
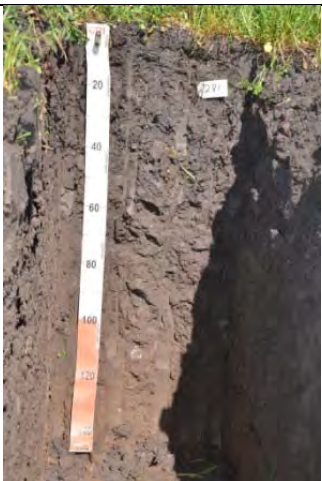
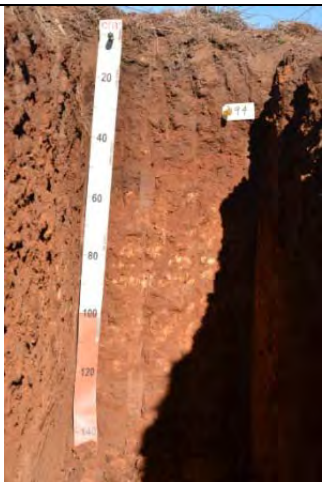
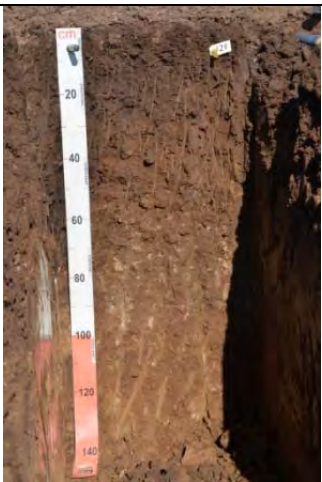
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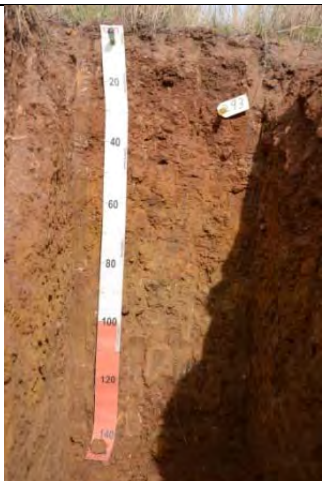
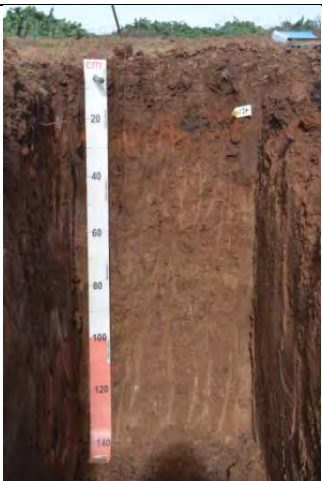
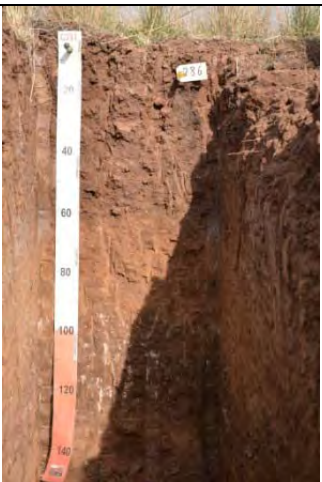
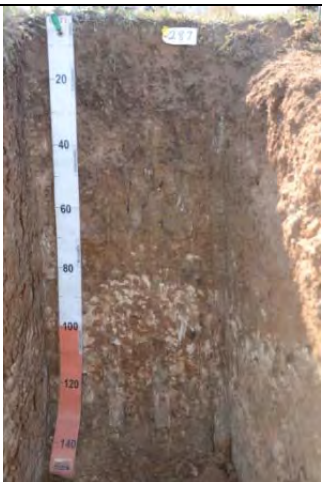
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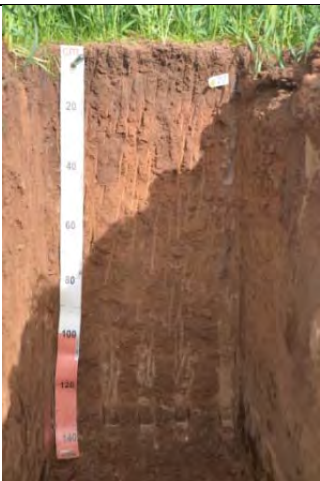
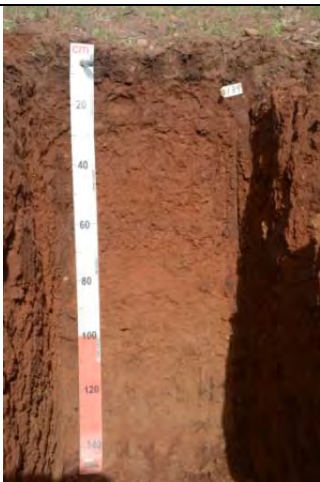
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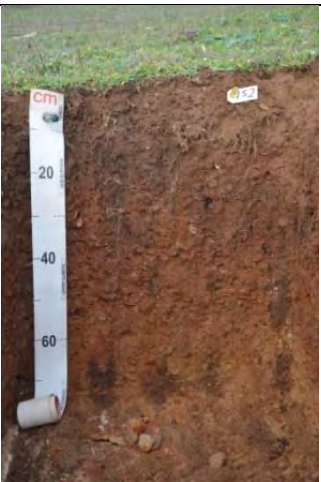
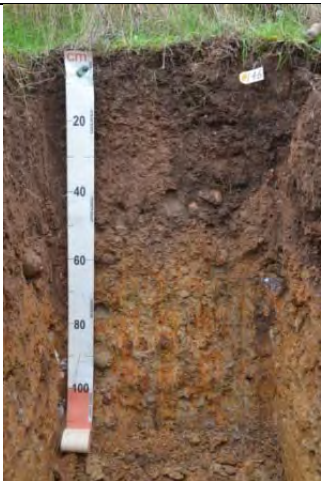
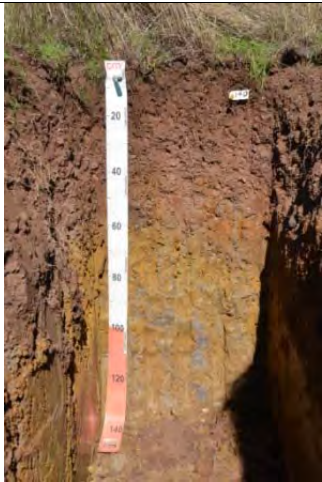
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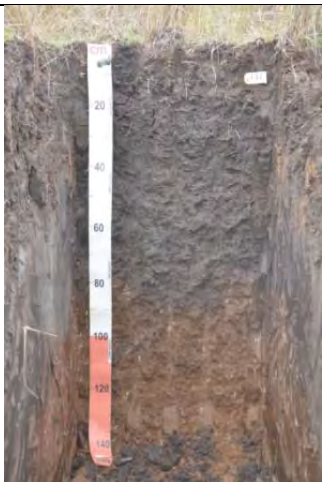
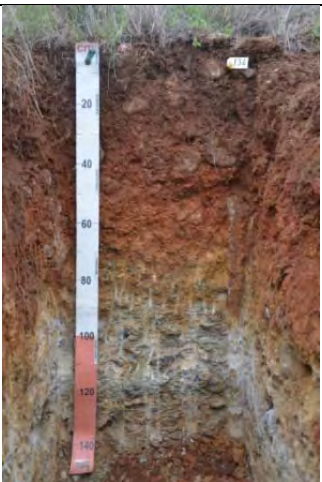
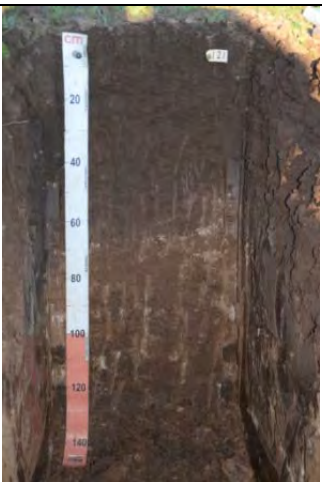
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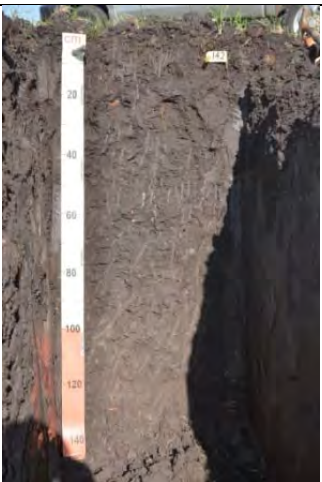
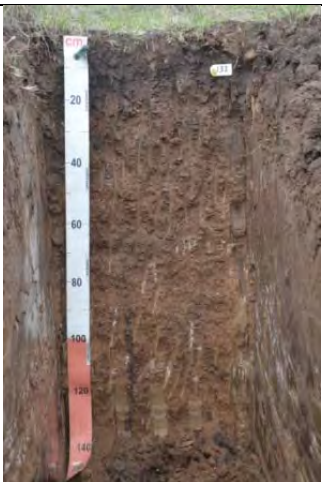
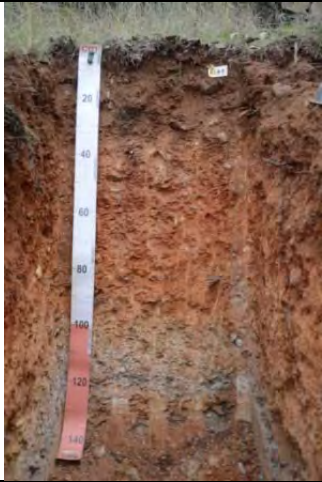
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