Project Name: **Chittering land resources survey**
Project Code: **CHT** **Site ID:** **1103** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By: B. Purdie
Date Desc.: 21/04/98
Map Ref.:
Northing/Long.: 6534221 AMG zone: 50
Easting/Lat.: 422755 Datum: AGD84
Locality:
Elevation: No Data
Rainfall: No Data
Runoff: No Data
Drainage: Well drained

Geology

ExposureType: Existing vertical exposure
Geol. Ref.: No Data
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: No Data

Land Form

Rel/Slope Class: No Data
Morph. Type: Mid-slope
Elem. Type: Hillslope
Slope: 5 %
Pattern Type: Low hills
Relief: No Data
Slope Category: No Data
Aspect: No Data

Surface Soil Condition Firm

Erosion: (sheet) (rill) (gully)

Soil Classification

Australian Soil Classification:
Ferric Eutrophic Red Kandosol
ASC Confidence:
Confidence level not specified
Mapping Unit: N/A
Principal Profile Form: K-Dr4.52
Great Soil Group: N/A

Site Cultivation. Rainfed

Vegetation:

Surface Coarse 10-20%, , subrounded, Ironstone

Profile

A1c 0 - 0.14 m Dark reddish brown (5YR3/3-Moist); ; Fine sandy loam; Moderate grade of structure, 2-5 mm, ; Dry; Weak consistence; 20-50%, fine gravelly, 2-6mm, rounded, Ironstone, coarse fragments; Field pH 6.2 (pH meter); Many, fine (1-2mm) roots; Clear change to -

B1c 0.14 - 0.36 m Reddish brown (5YR4/4-Moist); ; Fine sandy loam; Weak grade of structure, 2-5 mm, Subangular blocky; Dry; Firm consistence; 50-90%, medium gravelly, 6-20mm, subrounded, Ironstone, coarse fragments; Field pH 6.6 (pH meter); Common, fine (1-2mm) roots; Gradual change to -

B21c 0.36 - 0.65 m Yellowish red (5YR4/6-Moist); ; Sandy loam; Massive grade of structure; Dry; Firm consistence; 50-90%, fine gravelly, 2-6mm, rounded, Ironstone, coarse fragments; Field pH 6.7 (pH meter); Common, fine (1-2mm) roots; Diffuse change to -

B22c 0.65 - 1.4 m Yellowish red (5YR4/6-Moist); ; Sandy clay loam; Massive grade of structure; Moderately moist; Firm consistence; 50-90%, fine gravelly, 2-6mm, rounded, Ironstone, coarse fragments; Field pH 7 (pH meter); Few, fine (1-2mm) roots;

1.4 - m ; Sandy clay loam;

Morphological Notes

Observation Notes

Site Notes

Photos Roll 58 4/6. Deep gravelly loam

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations	Exchangeable	CEC	ECEC	ESP

m		dS/m	Ca	Mg	K	Na	Acidity		%
					Cmol (+)/kg				
0 - 0.14	5.2B 6.2H	6B	7.62H	1.22	1.24	0.21	0.17J	10.29D	
0 - 0.14	5.2B 6.2H	6B	7.62H	1.22	1.24	0.21	0.17J	10.29D	
0 - 0.14	5.2B 6.2H	6B	7.62H	1.22	1.24	0.21	0.17J	10.29D	
0.14 - 0.36	6B	4B	4.8A	1.15	1.7	0.19		7.84D	
0.14 - 0.36	6B	4B	4.8A	1.15	1.7	0.19		7.84D	
0.14 - 0.36	6B	4B	4.8A	1.15	1.7	0.19		7.84D	
0.36 - 0.65	6.2B 7.1H	4B	4.91A	1.37	0.65	0.35		7.28D	
0.36 - 0.65	6.2B 7.1H	4B	4.91A	1.37	0.65	0.35		7.28D	
0.36 - 0.65	6.2B 7.1H	4B	4.91A	1.37	0.65	0.35		7.28D	
0.65 - 0.9	6.3B 7.2H	5B	3.86A	2.39	0.21	0.47		6.93D	
0.65 - 0.9	6.3B 7.2H	5B	3.86A	2.39	0.21	0.47		6.93D	
0.65 - 0.9	6.3B 7.2H	5B	3.86A	2.39	0.21	0.47		6.93D	
0.9 - 1.4	6.3B 7.5H	8B	2.55A	2.42	0.26	1.02		6.25D	
0.9 - 1.4	6.3B 7.5H	8B	2.55A	2.42	0.26	1.02		6.25D	
0.9 - 1.4	6.3B 7.5H	8B	2.55A	2.42	0.26	1.02		6.25D	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis			
		Clay						GV	CS	FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.14		3.51D		500B	0.284E						1.1
1.3											
0 - 0.14		3.51D		500B	0.284E						1.1
1.3											
0 - 0.14		3.51D		500B	0.284E						1.1
1.3											
0.14 - 0.36		0.91D		220B	0.065E						0.5
0.5											
0.14 - 0.36		0.91D		220B	0.065E						0.5
0.5											
0.14 - 0.36		0.91D		220B	0.065E						0.5
0.5											
0.36 - 0.65		0.57D		170B	0.046E						0.4
0.4											
0.36 - 0.65		0.57D		170B	0.046E						0.4
0.4											
0.36 - 0.65		0.57D		170B	0.046E						0.4
0.4											
0.65 - 0.9		0.36D		160B	0.038E						0.4
0.3											
0.65 - 0.9		0.36D		160B	0.038E						0.4
0.3											
0.65 - 0.9		0.36D		160B	0.038E						0.4
0.3											
0.9 - 1.4		0.32D		160B	0.035E						1.2
1.4											
0.9 - 1.4		0.32D		160B	0.035E						1.2
1.4											
0.9 - 1.4		0.32D		160B	0.035E						1.2
1.4											

Laboratory Analyses Completed for this profile

15_NR_BSa Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available

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15_NR_CMR	Exchangeable bases (Ca/Mg ratio) - Not recorded
15A1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_K	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_MG	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_NA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble salts
15E1_K	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_MG	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_MN	Exchangeable bases (Mn2+) by compulsive exchange, no pretreatment for soluble salts
15E1_NA	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15J_BASES	Sum of Bases
15N1_b	Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations
3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - Not recorded
4B_AL_NR	Aluminium in 1:5 soil/0.01M calcium chloride extract - method not recorded
4B1	pH of 1:5 soil/0.01M calcium chloride extract - direct
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7A1	Total nitrogen - semimicro Kjeldahl, steam distillation
9A3	Total Phosphorus (ppm) - semimicro kjeldahl, automated colour
9H1	Anion storage capacity
P10_20_100	20 to 100u particle size analysis, (method not recorded)
P10_gt2m	> 2mm particle size analysis, (method not recorded)
P10_NR_C	Clay (%) - Not recorded
P10_NR_Saa	Sand (%) - Not recorded arithmetic difference, auto generated
P10_NR_Z	Silt (%) - Not recorded
P10100_200	100 to 200u particle size analysis, (method not recorded)
P10200_600	200 to 600u particle size analysis, (method not recorded)
P106002000	600 to 2000u particle size analysis, (method not recorded)