Project Name: **Chittering land resources survey**
Project Code: **CHT** **Site ID:** **1100** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	B. Purdie	**Locality:**	
Date Desc.:	20/04/98	**Elevation:**	No Data
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6494737 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	425614 Datum: AGD84	**Drainage:**	Well drained

Geology

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

Land Form

Rel/Slope Class:	Rolling low hills 30-90m 10-32%	**Pattern Type:**	Hills
Morph. Type:	Lower-slope	**Relief:**	No Data
Elem. Type:	Footslope	**Slope Category:**	No Data
Slope:	6 %	**Aspect:**	No Data

Surface Soil Condition

Soft

Erosion:

(sheet) (rill) (gully)

Soil Classification

Australian Soil Classification:
Ferric Mesotrophic Red Dermosol

ASC Confidence:
Confidence level not specified

Mapping Unit: N/A
Principal Profile Form: Dy5.12
Great Soil Group: N/A

Site

No effective disturbance. Natural

Vegetation:

Surface Coarse

Profile

A11hc 0 - 0.05 m Very dark greyish brown (10YR3/2-Moist); ; Loamy sand; Weak grade of structure, 2-5 mm, ; Loose consistence; Field pH 6.6 (pH meter); Many, fine (1-2mm) roots; Clear, Smooth change to -

A12c 0.05 - 0.2 m Brown (7.5YR4/4-Moist); ; Sandy clay loam; Moderate grade of structure, 5-10 mm, Polyhedral; Weak consistence; 20-50%, medium gravelly, 6-20mm, subangular, Ironstone, coarse fragments; Field pH 7.2 (pH meter); Many, fine (1-2mm) roots; Clear change to -

B21tc 0.2 - 0.5 m Reddish brown (5YR4/4-Moist); ; Sandy clay loam; Moderate grade of structure, 10-20 mm, Polyhedral; Weak consistence; 10-20%, subangular, Ironstone, coarse fragments; Field pH 7.1 (pH meter); Many, fine (1-2mm) roots; Clear change to -

B22tc 0.5 - 0.7 m Strong brown (7.5YR4/6-Moist); , 5YR46, 10-20% , 5-15mm, Distinct; Sandy clay loam; Moderate grade of structure, 50-100 mm, Prismatic; Firm consistence; 20-50%, coarse fragments; Many cutans, >50% of ped faces or walls coated, distinct; Field pH 7.1 (pH meter); Many, fine (1-2mm) roots; Gradual change to -

B23c 0.7 - 0.9 m Yellowish brown (10YR5/6-Moist); , 10YR58, 10-20% , 5-15mm, Distinct; , 5YR46, 2-10% , 0-5mm, Distinct; Sandy clay loam; Moderate grade of structure, 10-20 mm, Subangular blocky; Firm consistence; 2-10%, coarse fragments; Many cutans, >50% of ped faces or walls coated, distinct; Field pH 7.2 (pH meter); Common, fine (1-2mm) roots; Gradual change to -

B24tc 0.9 - 1.6 m Yellowish brown (10YR5/6-Moist); ; Light medium clay; Massive grade of structure; Very firm consistence; 20-50%, medium gravelly, 6-20mm, subangular, Ironstone, coarse fragments; Field pH 6.4 (pH meter); Few, fine (1-2mm) roots;

B25 1.6 - 1.65 m ; Light medium clay; 50-90%, medium gravelly, 6-20mm, subangular, Ironstone, coarse fragments; Field pH 6.4 (pH meter);

Morphological Notes

A11hc	0-5 Litter Layer - Many fine roots.
B21tc	Few coarse roots.
B22tc	Few coarse roots.
B23c	Few coarse roots.

Observation Notes

Site Notes

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Photos Neg-2132 Exposed bank to 140cm the auger. Gravelly red/brown loam

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations Ca	Mg	K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.2	5.8B 6.9H	4B	3.32A	1.98	0.47	0.15			5.92D	
0 - 0.2	5.8B 6.9H	4B	3.32A	1.98	0.47	0.15			5.92D	
0 - 0.2	5.8B 6.9H	4B	3.32A	1.98	0.47	0.15			5.92D	
0.06 - 0.11										
0.2 - 0.5	5.7B 6.7H	4B	1.12A	1.85	0.48	0.13			3.58D	
0.2 - 0.5	5.7B 6.7H	4B	1.12A	1.85	0.48	0.13			3.58D	
0.2 - 0.5	5.7B 6.7H	4B	1.12A	1.85	0.48	0.13			3.58D	
0.3 - 0.35										
0.5 - 0.7	5.6B 6.2H	3B	0.74H	1.48	0.35	0.11	0.02J		2.68D	
0.5 - 0.7	5.6B 6.2H	3B	0.74H	1.48	0.35	0.11	0.02J		2.68D	
0.5 - 0.7	5.6B 6.2H	3B	0.74H	1.48	0.35	0.11	0.02J		2.68D	
0.55 - 0.6										
0.7 - 0.9	5.6B 6.1H	3B	0.71H	2.04	0.32	0.14			3.21D	
0.7 - 0.9	5.6B 6.1H	3B	0.71H	2.04	0.32	0.14			3.21D	
0.7 - 0.9	5.6B 6.1H	3B	0.71H	2.04	0.32	0.14			3.21D	
0.9 - 1.3	5.3B 6.1H	4B	0.65H	2.9	0.28	0.25	0.02J		4.08D	
0.9 - 1.3	5.3B 6.1H	4B	0.65H	2.9	0.28	0.25	0.02J		4.08D	
0.9 - 1.3	5.3B 6.1H	4B	0.65H	2.9	0.28	0.25	0.02J		4.08D	
1.3 - 1.6	5.3B 6.2H	4B	0.78H	3.24	0.18	0.38			4.58D	
1.3 - 1.6	5.3B 6.2H	4B	0.78H	3.24	0.18	0.38			4.58D	
1.3 - 1.6	5.3B 6.2H	4B	0.78H	3.24	0.18	0.38			4.58D	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	GV	Particle Size Analysis CS	FS	Silt
		Clay									
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.2		1.51D		120B	0.09E				62.5I		19.1
18.4											
0 - 0.2		1.51D		120B	0.09E				62.5I		19.1
18.4											
0 - 0.2		1.51D		120B	0.09E				62.5I		19.1
18.4											
0.06 - 0.11							1.20				
0.2 - 0.5		0.5D		110B	0.046E				67.8I		13.5
18.7											
0.2 - 0.5		0.5D		110B	0.046E				67.8I		13.5

18.7 0.2 - 0.5 18.7	0.5D	110B	0.046E	67.8I	13.5

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0.3 - 0.35				1.30		
0.5 - 0.7	0.29D	93B	0.032E		61.5I	17.4
21.1						
0.5 - 0.7	0.29D	93B	0.032E		61.5I	17.4
21.1						
0.5 - 0.7	0.29D	93B	0.032E		61.5I	17.4
21.1						
0.55 - 0.6				1.30		
0.7 - 0.9	0.28D	80B	0.03E		63.1I	19.9
17						
0.7 - 0.9	0.28D	80B	0.03E		63.1I	19.9
17						
0.7 - 0.9	0.28D	80B	0.03E		63.1I	19.9
17						
0.9 - 1.3	0.31D	78B	0.032E		64.2I	21.3
14.5						
0.9 - 1.3	0.31D	78B	0.032E		64.2I	21.3
14.5						
0.9 - 1.3	0.31D	78B	0.032E		64.2I	21.3
14.5						
1.3 - 1.6	0.3D	68B	0.033E		74I	4.8
21.2						
1.3 - 1.6	0.3D	68B	0.033E		74I	4.8
21.2						
1.3 - 1.6	0.3D	68B	0.033E		74I	4.8
21.2						

Laboratory Analyses Completed for this profile

15_NR_AL	Aluminium Cation - meq per 100g of soil - Not recorded
15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMR	Exchangeable bases (Ca/Mg ratio) - Not recorded
15_NR_MN	Exchangeable bases (Mn++) - meq per 100g of soil - 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_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_gt2m	> 2mm particle size analysis, (method not recorded)
P10_NR_C	Clay (%) - Not recorded
P10_NR_S	Sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded
P3A_NR	Bulk density - Not recorded