Project Name: **Chittering land resources survey**
Project Code: **CHT** **Site ID:** **0935** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	John Bessell-Browne	**Locality:**	
Date Desc.:	12/05/97	**Elevation:**	No Data
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6503658 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	415419 Datum: AGD84	**Drainage:**	Moderately 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:	No Data	**Pattern Type:**	Alluvial plain
Morph. Type:	Open depression (vale)	**Relief:**	No Data
Elem. Type:	Valley flat	**Slope Category:**	No Data
Slope:	%	**Aspect:**	No Data

Surface Soil Condition Firm

Erosion: (sheet) (gully)

Soil Classification

Australian Soil Classification:
Haplic Mesotrophic Brown Chromosol

ASC Confidence:
Confidence level not specified

Mapping Unit: N/A
Principal Profile Form: Dy
Great Soil Group: N/A

Site Vegetation: Complete clearing. Pasture, native or improved, but never cultivated

Surface Coarse

Profile

A1 0 - 0.15 m Dark brown (7.5YR3/2-Moist); ; Fine sandy loam; , Granular; Earthy fabric; Dry; Very weak consistence;
Water repellent; Field pH 7 (pH meter); Clear change to -

B21w 0.15 - 0.24 m Brown (7.5YR4/4-Moist); ; Fine sandy loam; Earthy fabric; Weak consistence; Field pH 6.9 (pH meter);
Gradual change to -

B22t 0.24 - 0.44 m Brown (7.5YR4/4-Moist); ; Medium clay; Very firm consistence; 2-10%, subrounded, Dolerite, coarse
fragments; 2-10%, subrounded, Gneiss, coarse fragments; Field pH 7.2 (pH meter); Clear change to -

B23t 0.44 - 0.8 m Brown (7.5YR4/4-Moist); ; Sandy medium clay; Earthy fabric; Very firm consistence; Very few (0 - 2 %), , ,
; , Ferruginous, Medium (2 -6 mm), Nodules; Field pH 7.1 (pH meter); Clear change to -

B24c 0.8 - 1.3 m Yellowish brown (10YR5/6-Moist); ; Light clay; Earthy fabric; Strong consistence; 2-10%, medium
gravelly, 6-20mm, angular, Ironstone, coarse fragments; Few (2 - 10 %), Ferruginous, Medium (2 -6
mm), Nodules; Field pH 7.1 (pH meter); Clear change to -

BCt 1.3 - 1.7 m Brown (7.5YR4/4-Moist); , 10YR44; Sandy clay loam; Earthy fabric; Very firm consistence; 2-10%, fine
gravelly, 2-6mm, subangular, Ironstone, coarse fragments; Few (2 - 10 %), Ferruginous, Medium (2 -6
mm), Nodules; Field pH 7.2 (pH meter);

1.7 - m ;

Morphological Notes

Observation Notes

Site Notes

[Brown loamy earth from lab data]

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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 - 0.15	5.2B 6H	11B	7.44H	2.58	0.32	0.33	0.09J		10.67D	
0 - 0.15	5.2B 6H	11B	7.44H	2.58	0.32	0.33	0.09J		10.67D	
0 - 0.15	5.2B 6H	11B	7.44H	2.58	0.32	0.33	0.09J		10.67D	
0.02 - 0.07										
0.15 - 0.24	5.3B 6.4H	4B	2.15A	1.46	0.22	0.2			4.03D	
0.15 - 0.24	5.3B 6.4H	4B	2.15A	1.46	0.22	0.2			4.03D	
0.15 - 0.24	5.3B 6.4H	4B	2.15A	1.46	0.22	0.2			4.03D	
0.17 - 0.22										
0.24 - 0.44	5.5B 6.8H	3B	2.27A	2.15	0.29	0.22			4.93D	
0.24 - 0.44	5.5B 6.8H	3B	2.27A	2.15	0.29	0.22			4.93D	
0.24 - 0.44	5.5B 6.8H	3B	2.27A	2.15	0.29	0.22			4.93D	
0.3 - 0.35										
0.44 - 0.8	5.5B 7H	3B	1.52A	2.44	0.31	0.33			4.6D	
0.44 - 0.8	5.5B 7H	3B	1.52A	2.44	0.31	0.33			4.6D	
0.44 - 0.8	5.5B 7H	3B	1.52A	2.44	0.31	0.33			4.6D	
0.46 - 0.51										
0.8 - 1.3	5.6B 6.9H	4B	1.79A	3.42	0.28	0.43			5.92D	
0.8 - 1.3	5.6B 6.9H	4B	1.79A	3.42	0.28	0.43			5.92D	
0.8 - 1.3	5.6B 6.9H	4B	1.79A	3.42	0.28	0.43			5.92D	
0.95 - 1										
1.3 - 1.7	5.6B 7H	2B	1.91A	4.34	0.21	0.33			6.79D	
1.3 - 1.7	5.6B 7H	2B	1.91A	4.34	0.21	0.33			6.79D	
1.3 - 1.7	5.6B 7H	2B	1.91A	4.34	0.21	0.33			6.79D	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis GV	CS	FS	Silt
m	%	Clay %	mg/kg	%	%	%	Mg/m3			%	
0 - 0.15		3.96D		350B	0.219E						9.3
6.8											
0 - 0.15		3.96D		350B	0.219E						9.3
6.8											
0 - 0.15		3.96D		350B	0.219E						9.3
6.8											
0.02 - 0.07							1.05				
0.15 - 0.24		0.71D		170B	0.051E						8.6
13.6											

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0.15 - 0.24	0.71D	170B	0.051E			8.6
13.6						
0.15 - 0.24	0.71D	170B	0.051E			8.6
13.6						
0.17 - 0.22				1.50		
0.24 - 0.44	0.54D	180B	0.043E			7.6
22.1						
0.24 - 0.44	0.54D	180B	0.043E			7.6
22.1						
0.24 - 0.44	0.54D	180B	0.043E			7.6
22.1						
0.3 - 0.35				1.70		
0.44 - 0.8	0.34D	160B	0.27E			6.7
23.4						
0.44 - 0.8	0.34D	160B	0.27E			6.7
23.4						
0.44 - 0.8	0.34D	160B	0.27E			6.7
23.4						
0.46 - 0.51				1.60		
0.8 - 1.3	0.27D	120B	0.022E			7
25.1						
0.8 - 1.3	0.27D	120B	0.022E			7
25.1						
0.8 - 1.3	0.27D	120B	0.022E			7
25.1						
0.95 - 1				1.50		
1.3 - 1.7	0.24D	110B	0.019E			7.9
22.6						
1.3 - 1.7	0.24D	110B	0.019E			7.9
22.6						
1.3 - 1.7	0.24D	110B	0.019E			7.9
22.6						

Laboratory Analyses Completed for this profile

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
15A1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_CEC	Exchangeable bases (CEC) - 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
15L1_a	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using Sum of Cations and measured clay
15N1_a	Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC
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
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_1m2m	1000 to 2000u particle size analysis, (method not recorded)
P10_20_75	20 to 75u particle size analysis, (method not recorded)
P10_75_106	75 to 106u 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
P10106_150	106 to 150u particle size analysis, (method not recorded)
P10150_180	150 to 180u particle size analysis, (method not recorded)
P10180_300	180 to 300u particle size analysis, (method not recorded)

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P10300_600	300 to 600u particle size analysis, (method not recorded)
P106001000	600 to 1000u particle size analysis, (method not recorded)
P3A_NR	Bulk density - Not recorded