Project Name: **Comprehensive resource assessment for forestry**
Project Code: **CRA** **Site ID:** **0012** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	Henry Smolinski	**Locality:**	
Date Desc.:	19/03/97	**Elevation:**	No Data
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6378904 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	452766 Datum: AGD84	**Drainage:**	No Data

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:**	No Data
Morph. Type:	No Data	**Relief:**	No Data
Elem. Type:	Valley flat	**Slope Category:**	No Data
Slope:	5 %	**Aspect:**	315 degrees

Surface Soil Condition

Erosion:

Soil Classification

Australian Soil Classification:
Mesotrophic Subnatric Red Sodosol

ASC Confidence:
Confidence level not specified

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

Site

Vegetation:

Surface Coarse

Profile

A11 0 - 0.1 m Dark brown (7.5YR3/4-Moist); ; Sandy clay loam; 2-5 mm, Granular; 10-20%, fine gravelly, 2-6mm, angular, Igneous rock (unidentified), coarse fragments; Field pH 5.5 (pH meter); Clear, Smooth change to -

A12 0.1 - 0.5 m Yellowish red (5YR5/8-Moist); ; Coarse sandy loam; Massive grade of structure; Earthy fabric; 20-50%, fine gravelly, 2-6mm, angular, Igneous rock (unidentified), coarse fragments; Field pH 6.5 (pH meter); Gradual, Smooth change to -

B2 0.5 - 0.9 m Reddish yellow (5YR6/8-Moist); ; Light medium clay; 20-50 mm, Angular blocky; 2-10%, fine gravelly, 2-6mm, angular, Igneous rock (unidentified), coarse fragments; Field pH 7 (pH meter); Clear, Smooth change to -

C 0.9 - 1.4 m Yellow (10YR7/8-Moist); , 7.5YR58, 20-50% , Distinct; Sandy clay loam; Massive grade of structure; , Angular blocky; 0-2%, subangular, Igneous rock (unidentified), coarse fragments; Field pH 7 (pH meter);

Morphological Notes

Observation Notes

Site Notes

Changed from 541 (brown loamy earth) to 506 (red deep loamy duplex) on 8/11/2000!!

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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 - 0.1	4.9B 5.9H	7B	4.43H	1.16	0.33	0.16	0.36J		6.08D	
0 - 0.1	4.9B 5.9H	7B	4.43H	1.16	0.33	0.16	0.36J		6.08D	
0.1 - 0.5	5.5B 6.5H	4B	1.29H	1.08	0.09	0.1			2.56D	
0.1 - 0.5	5.5B 6.5H	4B	1.29H	1.08	0.09	0.1			2.56D	
0.5 - 0.9	6.3B 7.2H	5B	1.59A	2.52	0.09	0.28			4.48D	
0.5 - 0.9	6.3B 7.2H	5B	1.59A	2.52	0.09	0.28			4.48D	
0.9 - 1.4	6.2B 6.8H	9B	0.84A	2.36	0.04	0.54			3.78D	
0.9 - 1.4	6.2B 6.8H	9B	0.84A	2.36	0.04	0.54			3.78D	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	GV	Particle Size Analysis CS	FS	Silt
m	%	Clay %	mg/kg	%	%	%	Mg/m3			%	
0 - 0.1		4.02D		240B	0.212E						18.2
10.5											
0 - 0.1		4.02D		240B	0.212E						18.2
10.5											
0.1 - 0.5		0.27D		69B	0.017E						22.8
21.2											
0.1 - 0.5		0.27D		69B	0.017E						22.8
21.2											
0.5 - 0.9		0.21D		48B	0.015E						21.2
42											
0.5 - 0.9		0.21D		48B	0.015E						21.2
42											
0.9 - 1.4		0.05D		48B	0.005E						29.2
24.7											
0.9 - 1.4		0.05D		48B	0.005E						29.2
24.7											

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_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

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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
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_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)
P10300_600	300 to 600u particle size analysis, (method not recorded)
P106001000	600 to 1000u particle size analysis, (method not recorded)