

Project Name: Moora Wongan Hills land resources survey
Project Code: MRA **Site ID:** 0522 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Mir Frahmand	Locality:	
Date Desc.:	04/04/97	Elevation:	No Data
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6681416 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	516913 Datum: AGD84	Drainage:	Well drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	No Data

Landform

Rel/Slope Class: Gently undulating rises 9-30m 1-3% **Pattern Type:** Rises

Morph. Type:	Upper-slope	Relief:	No Data
Elem. Type:	No Data	Slope Category:	No Data
Slope:	2 %	Aspect:	270 degrees

Surface Soil Condition Firm

Erosion

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Ferric-Acidic Petroferric Red Kandosol		Principal Profile Form:	N/A
ASC Confidence:		Great Soil Group:	N/A
Confidence level not specified			

Site Disturbance

Vegetation

Surface Coarse Fragments 10-20%, , angular, Quartz; No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Strong brown (7.5YR4/6-Moist); ; Clay loam, sandy; Weak grade of structure, 2-5 mm, Granular; Earthy
		fabric; 10-20%, angular, Quartz, coarse fragments; Field pH 4.5 (pH meter); Clear, Smooth change to -
A2c	0.1 - 0.3 m	Strong brown (7.5YR5/6-Moist); ; Clay loam, sandy; Weak grade of structure, 2-5 mm, Polyhedral; Earthy
		fabric; 20-50%, angular, Quartz, coarse fragments; Field pH 3.9 (pH meter); Diffuse, Smooth change to -
B1c	0.3 - 0.6 m	Yellowish red (5YR5/8-Moist); ; Clay loam, sandy; Massive grade of structure; Earthy fabric; 20-50%,
		rounded, Ironstone, coarse fragments; 10-20%, Quartz, coarse fragments; Field pH 4 (pH meter); Diffuse, Smooth change to -
B2t	0.6 - 0.9 m	Yellowish red (5YR5/8-Moist); ; Clay loam, fine sandy; Massive grade of structure; Earthy fabric; Field
		pH 3.8 (pH meter); Diffuse, Irregular change to -
B22t	0.9 - 1 m	; Clay loam, fine sandy; Massive grade of structure; Abrupt change to -
Cm	1 - 1.4 m	; Ferricrete, Strongly cemented, Concretionary;
	- m	; Duripan, Very strongly cemented, Massive;

Morphological Notes

Cm cemented laterite

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.1	4.3B 4.5H	75B	2.92H	0.42	0.13	0.25	0.35J		3.72D	
0.1 - 0.3	3.9B 4.3H	15B	0.96H	0.22	0.09	0.08	1.33J		1.35D	
0.3 - 0.6	3.9B 4.5H	5B	0.4H	0.14	0.05	0.05	1.57J		0.64D	
0.6 - 0.9	3.9B 4.4H	7B	0.38H	0.21	0.09	0.02	1.88J		0.7D	
0.9 - 1	3.8B 4.1H	23B	0.39H	0.87	0.38	0.06	1.9J		1.7D	

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	%	mg/kg	%	%	%	Mg/m3	GV CS FS Silt
0 - 0.1		0.97D		120B	0.062E			6
21.6								
0.1 - 0.3		0.67D						6.1
26.7								
0.3 - 0.6		0.34D						6.6
26.9								
0.6 - 0.9		0.23D						6.2
31.9								
0.9 - 1		0.17D						6.4
32								

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMd	Exchangeable bases (Ca/Mg ratio) - Not recorded
15_NR_MN	Exchangeable bases (Mn++) - meq per 100g of soil - Not recorded
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
18A1_NR	Bicarbonate-extractable potassium (not recorded)
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
9B_NR	Bicarbonate-extractable phosphorus (not recorded)
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_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)

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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)