

Project Name: Moora Wongan Hills land resources survey
Project Code: MRA **Site ID:** 0502 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Mir Frahmmand	Locality:	
Date Desc.:	01/01/95	Elevation:	No Data
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6640544 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	473711 Datum: AGD84	Drainage:	No Data

Geology

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

Landform

Rel/Slope Class:	Level plain <9m <1%	Pattern Type:	Plain
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	Plain	Slope Category:	No Data
Slope:	1 %	Aspect:	No Data

Surface Soil Condition

Erosion

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Sodic Mottled Brown Kandosol		Principal Profile Form:	N/A
ASC Confidence:		Great Soil Group:	N/A
Confidence level not specified			

Site Disturbance Cultivation. Rainfed

Vegetation

Surface Coarse Fragments

Profile Morphology

A1t	0 - 0.1 m	Strong brown (7.5YR4/6-Moist); ; Sandy clay loam; Moderate grade of structure, Granular; Field pH 5.6
		(pH meter); Diffuse change to -
A2t	0.1 - 0.3 m	Yellowish red (5YR5/6-Moist); ; Sandy clay loam; Massive grade of structure; Clear change to -
B1t	0.3 - 0.6 m	Yellowish red (5YR4/6-Moist); ; Sandy clay loam; Massive grade of structure; Field pH 6.9 (pH meter);
		Gradual change to -
B2tk	0.6 - 1 m	Brown (7.5YR5/4-Moist); , 10YR72; , 2.5YR46; Sandy clay loam; Massive grade of structure; Field pH
		7.7 (pH meter); Gradual change to -
B22tk	1 - 1.2 m	Yellowish brown (10YR5/4-Moist); , 10YR72, 2-10% ; , 2.5Y36, 10-20% ; Clay loam; Massive grade of
		structure; Many (20 -
		change to -
Cm	1.2 - 1.4 m	, 10YR72, 2-10% ; , 2.5YR36, 20-50% ; Clay loam;

Morphological Notes

B2tk	mottled
B22tk	mottled
Cm	Layer proportion of iron cementation

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
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m	dS/m			Cmol (+)/kg							%
0 - 0.1	5B	88B	4H	1.46	0.19	0.55	0.03J			6.2D	
	5.3H										
0.1 - 0.3	5.2B	36B	2.7H	1.25	0.04	0.47	0.03J			4.46D	
	5.8H										
0.3 - 0.6	5.4B	29B	2.67H	1.56	0.02	0.86				5.11D	
	6.1H										
0.6 - 1	6.8B	49B	3.4A	3.23	0.06	1.07				7.76D	
	7.5H										
1 - 1.2	7.4B	210B	5.7A	6.57	0.07	1				13.34D	
	7.7H										
1.2 - 1.4	8B	110B	5.62E	5.71	0.14	1.52		14B	12.99D	10.86	
	8.5H										

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size	Analysis
m	%	Clay	mg/kg	%	%	%	Mg/m3	GV CS FS	Silt
0 - 0.1		0.95D		150B	0.064E				5.8
23									
0.1 - 0.3		0.22D							3.9
21.5									
0.3 - 0.6		0.11D							4.9
23.9									
0.6 - 1		0.07D							6
24									
1 - 1.2		0.07D							4.4
34									
1.2 - 1.4	<2C	0.04D							6
32									

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_CM	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	
15A1_CEC	salts
15A1_K	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_MG	salts
for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_NA	salts
for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15C1_CA	salts
pretreatment for	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5,
15C1_CEC	soluble salts
15C1_K	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15C1_MG	
soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15C1_NA	
soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
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

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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
18A1_NR	Bicarbonate-extractable potassium (not recorded)
19B_NR	Calcium Carbonate (CaCO ₃) - 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)
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)