Project Name: **Moora Wongan Hills land resources survey**
Project Code: **MRA** **Site ID:** **0511** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	Mir Frahmand	**Locality:**	
Date Desc.:	24/03/97	**Elevation:**	No Data
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6681674 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	441976 Datum: AGD84	**Drainage:**	Imperfectly 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:	Flat	**Relief:**	No Data
Elem. Type:	Footslope	**Slope Category:**	No Data
Slope:	21 %	**Aspect:**	90 degrees

Surface Soil Condition

Soft

Erosion

Soil Classification

Australian Soil Classification:
Ferric-Sodic Eutrophic Brown Kandosol

ASC Confidence:
Confidence level not specified

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

Site Disturbance

Vegetation

Surface Coarse Fragments

Profile Morphology

A1 0 - 0.15 m Dark greyish brown (10YR4/2-Moist); ; Clayey sand; Smooth-ped fabric; Dry; Water repellent; Field pH 8.2 (pH meter); Clear, Wavy change to -

A2 0.15 - 0.25 m Yellowish brown (10YR5/4-Moist); ; Clayey sand; Smooth-ped fabric; Moderately moist; Field pH 7.4 (pH meter); Diffuse change to -

B1 0.25 - 0.6 m Brownish yellow (10YR6/6-Moist); ; Clayey sand; Smooth-ped fabric; Moist; Field pH 7.6 (pH meter); Abrupt change to -

B2c 0.6 - 0.8 m Brownish yellow (10YR6/6-Moist); , 5YR56, 20-50% , Prominent; Sandy loam; Earthy fabric; Moist; 50-90%, coarse fragments; Field pH 7.8 (pH meter); Gradual change to -

B2 0.8 - 1.2 m Brownish yellow (10YR6/6-Moist); , 5YR56, 20-50% , Prominent; Sandy clay loam; Earthy fabric; Moist; Field pH 6.5 (pH meter);

Morphological Notes

Observation Notes

Site Notes

Brown sandy earth. water table 150cm EC 880ms/m at 2m clay pan

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%
0 - 0.15	5.2B 5.9H	21B	0.74H	0.3	0.07	0.21	0.03J		1.32D	

0.15 - 0.25	5.1B 6.2H	5B	0.35H	0.22	0.05	0.18	0.03J	0.8D
0.25 - 0.6	6.2B 7.6H	6B	0.35A	0.42	0.03	0.39		1.19D
0.6 - 0.8	6.6B 7.6H	20B	0.39A	0.91	0.09	0.64		2.03D
0.8 - 1.2	6.5B 7.3H	30B	0.38A	1.02	0.1	0.86		2.36D

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 - 0.15		0.43D		90B	0.034E						2
3.3											
0.15 - 0.25		0.13D									2.4
5.6											
0.25 - 0.6		0.1D									2.1
8											
0.6 - 0.8		0.1D									3.8
14.8											
0.8 - 1.2		0.08D									5.2
19											

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
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_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)
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

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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)