

Project Name: Moora Wongan Hills land resources survey
Project Code: MRA **Site ID:** 0503 **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.: 6640069 AMG zone: 50	Runoff: No Data
Easting/Lat.: 472978 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: %	Aspect: No Data

Surface Soil Condition

Erosion

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Endohypersodic Regolith Hypercalic Calcarosol	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

A1	0 - 0.1 m	Dark reddish brown (2.5YR3/3-Moist); ; Sandy loam; Moderate grade of structure, ; Field pH 7.6 (pH meter); Clear change to -
B21t	0.1 - 0.35 m	Red (2.5YR4/6-Moist); ; Clay loam; Weak grade of structure, Polyhedral; Clear change to -
B22tk	0.35 - 0.65 m	Red (2.5YR4/6-Moist); ; Light clay; Moderate grade of structure, Angular blocky; 20-50%, Calcrete, coarse fragments; Many (20 - 50 %), Calcareous, , Soft segregations; Clear change to -
B23tk	0.65 - 1 m	Reddish brown (2.5YR4/4-Moist); , 2.5Y21; Light clay; Moderate grade of structure, Angular blocky; 20-50%, coarse gravelly, 20-60mm, subrounded, Calcrete, coarse fragments; Common (10 - 20 %), Calcareous, , Soft segregations; Diffuse change to -
B24tk	1 - 1.3 m	Red (2.5YR4/8-Moist); ; Sandy light clay; Weak grade of structure, Angular blocky; 0-2%, Calcrete, coarse fragments; Very few (0 - 2 %), Calcareous, , Soft segregations; Field pH 9.6 (pH meter); Diffuse change to -
B25tk	1.3 - 1.6 m	Red (2.5YR5/6-Moist); ; Sandy light clay;

Morphological Notes

B23tk layer of manganiferous covered the K ndules

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	6.1B 6.9H	9B	4.63A	2.17	1.23	0.18			8.21D	
0.1 - 0.35	6.4B 7.5H	4B	8.35A	4.11	1.38	0.26			14.1D	
0.35 - 0.65	8.1B 8.9H	12B	8.76E	5.06	1.1	0.64		18B	15.56D	3.56
0.65 - 1	8.3B 9.5H	24B	4.95E	5.6	1.6	2.37		17B	14.52D	13.94
1 - 1.3	8.5B 9.8H	46B	2.38E	5.38	1.9	5.4		16B	15.06D	33.75
1.3 - 1.6	8.6B 9.8H	71B	1.43E	5.17	2.02	7.28		16B	15.9D	45.50

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis	Silt
m	%	%	mg/kg	%	%	%	Mg/m3	GV CS FS	%
0 - 0.1 13.7		0.59D		160B	0.052E				8.2
0.1 - 0.35 30.5		0.37D							7.5
0.35 - 0.65 38	6C	0.27D							9.5
0.65 - 1 35.8	10C	0.12D							8.9
1 - 1.3 38.1	15C	0.08D							6.9
1.3 - 1.6 40.8	14C	0.08D							8.9

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMV	Exchangeable bases (Ca/Mg ratio) - Not recorded
15A1_CA for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
	salts
15A1_CEC	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_K for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
	salts
15A1_MG for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
	salts
15A1_NA for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
	salts
15C1_CA pretreatment for	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5,
	soluble salts
15C1_CEC	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K 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
15J_BASES	Sum of Bases
15L1_a Sum of Cations	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using
	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 (CaCO₃) - Not recorded

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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
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)