

Project Name: Moora Wongan Hills land resources survey
Project Code: MRA **Site ID:** 1189 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Mir Frahmmand	Locality:	
Date Desc.:	18/03/96	Elevation:	No Data
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6565166 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	438784 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:	Undulating rises 9-30m 3-10%	Pattern Type:	Low hills
Morph. Type:	Lower-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	4 %	Aspect:	0 degrees

Surface Soil Condition

Erosion

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Basic Regolithic Sequi-Nodular Tenosol		Principal Profile Form:	N/A
ASC Confidence:		Great Soil Group:	N/A
Analytical data are incomplete but reasonable confidence.			

Site Disturbance

Vegetation

Surface Coarse Fragments

Profile Morphology

A1	0 - 0.1 m	Greyish brown (10YR5/2-Moist); ; Clayey fine sand; Massive grade of structure; Moderately moist; 2-10%, rounded, Ironstone, coarse fragments; Field pH 7.1 (pH meter); Clear, Wavy change to -
A2	0.1 - 0.3 m	Greyish brown (10YR5/2-Moist); ; Clayey fine sand; Massive grade of structure; Moist; 2-10%, rounded, Ironstone, coarse fragments; Field pH 7.1 (pH meter); Abrupt, Smooth change to -
B21ec	0.3 - 0.55 m	Very pale brown (10YR7/3-Moist); ; Clayey fine sand; , Granular; Dry; 50-90%, rounded, coarse fragments; Field pH 7.1 (pH meter); Diffuse, Wavy change to -
B2c	0.55 - 0.9 m	Light yellowish brown (10YR6/4-Moist); ; Massive grade of structure; Dry; 50-90%, rounded, Ironstone, coarse fragments; Field pH 7 (pH meter); Clear, Smooth change to -
B2c	0.9 - 1.2 m	Brownish yellow (10YR6/6-Moist); , 2.5YR36, 20-50% , Distinct; , 10YR72, 2-10% , Massive grade of structure; Moist; 20-50%, angular, Ironstone, coarse fragments; 2-10%, rounded, Ironstone, coarse fragments; Very many (50 - 100 %), Ferruginous, Fine (0 - 2 mm), Soft segregations; , Ferruginous, Medium (2 -6 mm), Soft segregations; Field pH 6.5 (pH meter); Clear, Smooth change to -
B3	1.2 - 2 m	Brownish yellow (10YR6/8-Moist); , 2.5YR20, 2-10% , Faint; Sandy loam; Massive grade of structure; Moist; Field pH 6.2 (pH meter);

Morphological Notes

A2 ffwls

Observation Notes

Site Notes

Bown sandy earth

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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	6.8B 7.4H	10B	2.85A	0.79	0.16	0.04			3.84D	
0.1 - 0.3	6.6B 7.3H	6B	1.88A	0.65	0.18	0.02			2.73D	
0.3 - 0.55	5.4B 6.7H	3B	0.55A	0.24	0.4	0.04			1.23D	
0.55 - 0.9	5.9B 7H	4B	1.3A	0.45	0.26	0.15			2.16D	
0.9 - 1.2	6.2B 6.8H	7B	1.67A	0.82	0.05	0.28			2.82D	
1.2 - 2	6.3B 6.8H	10B	1.54A	1.12	0.04	0.24			2.94D	

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		0.94D		110B	0.078E			0.6
1.8								
0.1 - 0.3		0.6D						0.8
4								
0.3 - 0.55		0.14D						0.8
10.2								
0.55 - 0.9		0.16D						1.1
15.7								
0.9 - 1.2		0.11D						1.2
12								
1.2 - 2		0.1D						2.8
11.2								

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	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
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
9B_NR	Bicarbonate-extractable phosphorus (not recorded)
9H1	Anion storage capacity
P10_1m2m	1000 to 2000u particle size analysis, (method not recorded)

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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)