Project Name: Moora Wongan Hills land resources survey

Project Code: MRA Site ID: 0009 Observation ID: 1

Agency Name: Agriculture Western Australia

Site Information

Desc. By: Mir Frahmand Locality:

Date Desc.:03/03/95Elevation:No DataMap Ref.:Rainfall:No Data

Northing/Long.: 6590000 AMG zone: 50 Runoff: No Data
Easting/Lat.: 435100 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: No Data Pattern Type: No Data Morph. Type: Relief: No Data Upper-slope Elem. Type: Hillslope **Slope Category:** No Data Slope: 3 % Aspect: 225 degrees

Surface Soil Condition Soft

Erosion

Soil Classification

 Australian Soil Classification:
 Mapping Unit:
 N/A

 Mottled-Sodic Mesotrophic Yellow Kandosol
 Principal Profile Form:
 N/A

 ASC Confidence:
 Great Soil Group:
 N/A

Confidence level not specified

Site Disturbance

Vegetation

Surface Coarse Fragments

Profile Morphology

A1 0 - 0.1 m Dark yellowish brown (10YR4/4-Moist); ; Fine sandy loam; <2 mm, ; Dry; 10-20%,

rounded, Ironstone, coarse fragments; Field pH 5.8 (pH meter); Clear change to -

B11c 0.1 - 0.35 m Yellowish brown (10YR5/6-Moist); ; Massive grade of structure; Dry; 50-90%, coarse gravelly, 20-60mm,

subangular, Ironstone, coarse fragments; 20-50%, subrounded, Ironstone, coarse fragments; Field pH

6.2 (pH meter); Diffuse change to -

B12c 0.35 - 0.7 m Yellowish brown (10YR5/6-Moist); ; Massive grade of structure; Dry; 50-90%, coarse

gravelly, 20-60mm,

subangular, Ironstone, coarse fragments; 20-50%, subrounded, Ironstone, coarse fragments; Field pH 6

(pH meter); Abrupt change to -

B2t 0.7 - 1 m , 2.5YR48; Light clay; Moderate grade of structure; Smooth-ped fabric; Dry; Field pH 6.3

(pH meter); Diffuse change to -

Btc 1 - 1.5 m Dark red (2.5YR3/6-Moist); , 10YR76; Medium clay; Rough-ped fabric; Dry; Field pH 7.6

(pH meter);

Morphological Notes

B11c Fine +

Btc Mottled clay - Duplex.

Observation Notes

Site Notes

Roll PIA, 5 & 5a, 5th Horizon - not easy to dig soil. Latarite out crop east of pit, about 50m away.

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Laboratory Test Results:

Depth pH 1:5 EC Exchangeable Cations Exchangeable CEC ECEC ESP

m		dS/m	Ca	Mg	K	Na Cmol (+)/I	Acidity kg		%	,
0 - 0.1	4.8B 5.6H	9B	3.04H	0.96	0.43	0.09	0.39J		4.52D	
0.1 - 0.35	5.4B 6.3H	5B	3.03H	1.56	0.05	0.25	0.02J		4.89D	
0.35 - 0.7	5.9B 6.6H	7B	2.35A	3.16	0.05	0.39			5.95D	
0.7 - 1	6.3B 7.1H	12B	1.08A	3.84	0.04	0.88			5.84D	
1 - 1.5	6.9B 7.2H	78B	0.75A	3.76	0.03	1.52			6.06D	
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV CS	e Size Analysis FS Silt	
m	%	Clay %	mg/kg	%	%	%	Mg/m3		%	
0 - 0.1 11.8		2.13D		240B	0.14	4E			7.2	
0.1 - 0.35 31.1		0.48D		60B	0.03	3E			6.4	
0.35 - 0.7 35.5		0.34D		54B	0.02	2E			5.7	
0.7 - 1 37.5		0.17D		35B	0.01	1E			6.7	
1 - 1.5 49.5		0.06D		20B	0.00	4E			12.7	

Laboratory Analyses Completed for this profile

49.5

Euboratory Arian	yses completed for this profile
15_NR_BSa 15_NR_CMR 15A1_CA for soluble	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available Exchangeable bases (Ca/Mg ratio) - Not recorded Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
	salts
15A1_CEC 15A1_K for soluble	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts 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
15E1_AL 15E1_CA	Exchangeable AI - by compulsive exchange, no pretreatment for soluble salts Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble
salts	
15E1_K 15E1_MG 15E1_MN 15E1_NA 15J_BASES 15L1_a	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Exchangeable bases (Mn2+) by compulsive exchange, no pretreatment for soluble salts Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Sum of Bases Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using
Sum of Cations	
15N1_a 15N1_b 3_NR 4_NR 4B_AL_NR 4B1 6A1_UC 7A1 9A3 9H1	and measured clay Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations Electrical conductivity or soluble salts - Not recorded pH of soil - Not recorded Aluminium in 1:5 soil/0.01M calcium chloride extract - method not recorded pH of 1:5 soil/0.01M calcium chloride extract - direct Organic carbon (%) - Uncorrected Walkley and Black method Total nitrogen - semimicro Kjeldahl, steam distillation Total Phosphorus (ppm) - semimicro kjeldahl, automated colour Anion storage capacity

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P10_1m2m P10_20_75 P10_75_106 P10_NR_C P10_NR_Saa P10_NR_Z P10106_150 P10150_180 1000 to 2000u particle size analysis, (method not recorded) 20 to 75u particle size analysis, (method not recorded) 75 to 106u particle size analysis, (method not recorded)

Clay (%) - Not recorded Sand (%) - Not recorded arithmetic difference, auto generated

Silt (%) - Not recorded

106 to 150u particle size analysis, (method not recorded)

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)