Project Name: Moora Wongan Hills land resources survey
Project Code: MRA **Site ID:** 0521 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Mir Frahmand
Date Desc.: 04/04/97
Map Ref.:
Northing/Long.: 6680797 AMG zone: 50
Easting/Lat.: 515768 Datum: AGD84
Locality:
Elevation: No Data
Rainfall: No Data
Runoff: No Data
Drainage: No Data

Geology

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

Landform

Rel/Slope Class: Gently undulating rises 9-30m 1-3%
Pattern Type: Rises

Morph. Type: Mid-slope
Elem. Type: No Data
Slope: 1 %
Relief: No Data
Slope Category: No Data
Aspect: 270 degrees

Surface Soil Condition

Soft

Erosion

Soil Classification

Australian Soil Classification:
Acidic Dystrophic Brown Kandosol
ASC Confidence:
Analytical data are incomplete but reasonable confidence.
Mapping Unit: N/A
Principal Profile Form: N/A
Great Soil Group: N/A

Site Disturbance

Vegetation

Surface Coarse Fragments

Profile Morphology

A1 0 - 0.05 m Dark yellowish brown (10YR4/4-Moist); ; Sandy loam; Massive grade of structure; Sandy (grains prominent) fabric; Dry; Field pH 5.3 (pH meter); Clear change to -

A2 0.05 - 0.15 m Dark yellowish brown (10YR4/6-Moist); ; Sandy loam; Earthy fabric; Dry; Field pH 4.3 (pH meter); Diffuse change to -

B1 0.15 - 1 m Yellowish brown (10YR5/8-Moist); ; Clay loam, sandy; Earthy fabric; Dry; Field pH 3.8 (pH meter); Diffuse change to -

B2w 1 - 2 m Yellowish brown (10YR5/6-Moist); , 2.5YR48, 2-10% , 0-5mm, Distinct; Clay loam, sandy; Earthy fabric; Moist; Field pH 3.6 (pH meter);

Morphological Notes

A1 m-k
A2 m-k
B1 f-m

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 0.05	5.2B 6.1H	6B	1.34H	0.42	0.04	0.23	0.03J		2.03D	
0.05 - 0.15	4B 4.7H	3B	0.39H	0.1	0.02	0.04	0.64J		0.55D	

0.15 - 0.4	4B 4.4H	5B	0.4H	0.09	<0.02	<0.02	0.84J		0.51D
1 - 2	3.9B 4.2H	4B	0.18H	0.06	<0.02	<0.02	1.4J		0.26D

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	GV	Particle Size CS	FS	Analysis Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.05		1.01D		170B	0.068E						4.5	12.2
0.05 - 0.15		0.6D									5.1	19.9
0.15 - 0.4		0.12D									5.2	21.6
1 - 2		0.06D									6.3	24.2

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_K	Exch. basic cations (K++) - meq per 100g of soil - Not recorded
15_NR_MN	Exchangeable bases (Mn++) - meq per 100g of soil - Not recorded
15_NR_NA	Exch. basic cations (Na++) - meq per 100g of soil - Not recorded
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
15E1_NA	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15J_BASES	Sum of Bases
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)
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)

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P10300_600	300 to 600u particle size analysis, (method not recorded)
P106001000	600 to 1000u particle size analysis, (method not recorded)