Project Name: **Moora Wongan Hills land resources survey**
Project Code: **MRA** **Site ID:** **0185** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By: Mir Frahmand
Date Desc.: 12/08/96
Map Ref.:
Northing/Long.: 6709528 AMG zone: 50
Easting/Lat.: 448160 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: Undulating rises 9-30m 3-10%
Morph. Type: No Data
Elem. Type: Hillslope
Slope: -2 %
Pattern Type: Rises
Relief: No Data
Slope Category: No Data
Aspect: 90 degrees

Surface Soil Condition

Erosion (wind);

Soil Classification

Australian Soil Classification:
Acidic Ferric Orthic Tenosol
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 - 0.1 m Dark yellowish brown (10YR4/4-Moist); ; Clayey fine sand; , Granular; 2-10%, fine gravelly, 2-6mm, rounded, Ironstone, coarse fragments; Water repellent; Field pH 5.1 (pH meter); Sharp change to -

B1c 0.1 - 0.35 m Yellowish brown (10YR5/4-Moist); ; , Polyhedral; 50-90%, medium gravelly, 6-20mm, subrounded, Ironstone, coarse fragments; Field pH 4.1 (pH meter); Diffuse change to -

B12c 0.35 - 0.6 m Yellowish brown (10YR5/6-Moist); ; , Polyhedral; 50-90%, coarse gravelly, 20-60mm, subrounded, Ironstone, coarse fragments; Field pH 3.9 (pH meter); Diffuse change to -

B2c 0.6 - 0.8 m Yellowish brown (10YR5/8-Moist); , 2.5YR76, 10-20% ; , Polyhedral; 50-90%, coarse gravelly, 20-60mm, subrounded, Ironstone, coarse fragments; Field pH 3.9 (pH meter); Diffuse change to -

B22 0.8 - 1.05 m Yellowish brown (10YR5/8-Moist); , 2.5YR46, 20-50% ; , Polyhedral; Field pH 3.9 (pH meter); Sharp change to -

BCm 1.05 - m ;

Morphological Notes

BCm endurated mottle zone

Observation Notes

Site Notes

Loamy gravel. Yb acidic earthy soil. Iron stone country

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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 - 0.1	4.4B 5.4H	3B	0.71H	0.23	0.15	0.07	0.34J	1.16D
0.1 - 0.35	4B 4.6H	7B	0.48H	0.14	0.07	0.11	0.97J	0.8D
0.35 - 0.6	4B 4.5H	6B	0.29H	0.1	0.05	0.08	1.17J	0.52D
0.6 - 0.8	3.9B 4.2H	6B	0.21H	0.08	0.04	0.07	1.12J	0.4D

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis			
		Clay						GV	CS	FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.1 12.6		1.04D		110B	0.055E						5.2
0.1 - 0.35 23.7		0.65D									6
0.35 - 0.6 24		0.31D									5.3
0.6 - 0.8 24.3		0.22D									5.1

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