

Project Name: Moora Wongan Hills land resources survey
Project Code: MRA **Site ID:** 0189 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Mir Frahmmand
Date Desc.: 12/08/96
Map Ref.:
Northing/Long.: 6707644 AMG zone: 50
Easting/Lat.: 448441 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 plains <9m 1-3%
Pattern Type: Rises

Morph. Type: Flat
Elem. Type: Footslope
Slope: 1 %
Relief: No Data
Slope Category: No Data
Aspect: 135 degrees

Surface Soil Condition

Erosion

Soil Classification

Australian Soil Classification:
 Haplic Petrocalcic Red Chromosol
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 reddish brown (5YR3/4-Moist); ; Clayey coarse sand; , Granular; Field pH 6.6 (pH meter); Clear
		change to -
B1t	0.1 - 0.25 m	Red (2.5YR4/6-Moist); ; Sandy clay loam; Moderate grade of structure; Field pH 7.1 (pH meter); Diffuse
		change to -
B2t	0.25 - 0.45 m	Dark red (2.5YR3/6-Moist); ; Sandy clay loam; Moderate grade of structure; Field pH 7.8 (pH meter);
		Diffuse change to -
B22tc	0.45 - 0.7 m	Dark red (2.5YR3/6-Moist); ; Sandy clay loam; Moderate grade of structure; 20-50%, coarse gravelly, 20-
		60mm, subrounded, Calcrete, coarse fragments; Soil matrix is Slightly calcareous; Field pH 8.6 (pH meter);
Cm	0.7 - m	; Calcrete, Moderately cemented, Nodular; Soil matrix is Highly calcareous; Field pH 8.8 (pH meter);

Morphological Notes

Observation Notes

Site Notes

Fine roots in profile.

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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	6B 7H	5B	1.87A	0.6	0.56	0.06			3.09D	
0.1 - 0.25	6.2B 7.6H	2B	4.08A	1.28	0.35	0.22			5.93D	
0.25 - 0.45	7.1B 8.8H	3B	5.33E	1.83	0.22	0.77		10B	8.15D	7.70
0.45 - 0.7	8.1B 9.3H	13B	5.9E	2.71	0.23	1.98		12B	10.82D	16.50

Depth	CaCO ₃	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis	GV	CS	FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m ³				%	
0 - 0.1 7.4		0.56D		180B	0.046E							5.3
0.1 - 0.25 19.4		0.24D										4.1
0.25 - 0.45 24.6		0.16D										4.5
0.45 - 0.7 23.4	<2C	0.09D										8.8

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMJR	Exchangeable bases (Ca/Mg ratio) - Not recorded
15A1_CA for soluble	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,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 (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15A1_MG for soluble	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15A1_NA for soluble	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15C1_CA pretreatment for	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,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_NJR	Bicarbonate-extractable potassium (not recorded)
19B_NJR	Calcium Carbonate (CaCO ₃) - Not recorded
3_NJR	Electrical conductivity or soluble salts - Not recorded
4_NJR	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_NJR	Bicarbonate-extractable phosphorus (not recorded)

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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)