

Project Name: Jerramungup soils inventory (=JER LRS)
Project Code: JSI **Site ID:** 0617 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Tim Overheu	Locality:	
Date Desc.:	05/05/94	Elevation:	120 metres
Map Ref.:		Rainfall:	550
Northing/Long.:	6191220 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	651405 Datum: AGD84	Drainage:	Imperfectly drained

Geology

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

Land Form

Rel/Slope Class:	Undulating plains <9m 3-10%	Pattern Type:	Rises
Morph. Type:	Open depression (vale)	Relief:	5 metres
Elem. Type:	Drainage depression	Slope Category:	No Data
Slope:	%	Aspect:	No Data

Surface Soil Condition

Erosion: (wind); (scald) (sheet) (rill) (mass) (gully)
(stbank) (tunnel)

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Hypocalcic Mottled-Hypernatric Brown Sodosol		Principal Profile Form:	Dy5.43
ASC Confidence:		Great Soil Group:	N/A
Analytical data are incomplete but reasonable confidence.			

Site Cultivation. Rainfed

Vegetation:

Surface Coarse No surface coarse fragments; 0-2%, , subangular, Unconsolidated material
(unidentified)

Profile

A1	0 - 0.15 m	Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Loamy fine sand; Sandy (grains prominent) fabric; Dry; Loose consistence; Strongly water repellent, "Abrupt change to -
A21	0.15 - 0.18 m	Light brownish grey (10YR6/2-Moist); , 0-0% ; Fine sand; Sandy (grains prominent) fabric; Dry; Loose consistence; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Concretions; Sharp change to -
B21	0.18 - 0.65 m	Strong brown (7.5YR5/8-Moist); Mottles, 10YR78, 20-50% , 0-5mm, Distinct; Light medium clay; Strong grade of structure, 100-200 mm, Columnar; Smooth-ped fabric; Dry; Very firm consistence; Clear change to -
B22	0.65 - 0.9 m	Pale yellow (2.5Y7/4-Moist); Mottles, 2.5Y66, 10-20% , 15-30mm, Prominent; Clay loam, sandy; Moderately moist; Firm consistence; Abrupt change to -
C	0.9 - 1 m	White (2.5Y8/2-Moist); ; Light medium clay; Strong grade of structure, 100-200 mm, Columnar; Smooth-ped fabric; Moderately moist; Very firm consistence; 20-50%, coarse gravelly, 20-60mm, angular, Siltstone, coarse fragments;

Morphological Notes

Observation Notes

Site Notes

Found at the top of the landscape, breakaway scarp ranges from 10-15 metres, slope ranges from 15-40% on the scarp the soil grades away to medium/shallow gravelly soils(refer diagram). Soils at foot slope have the following characteristics

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Laboratory Test Results:

Depth m	pH	1:5 EC dS/m	Ca	Exchangeable Mg	Cations K	Na Cmol (+)/kg	Exchangeable Acidity	CEC	ECEC	ESP %
0 - 0.15	5.1B 6H	11B	2.71A	0.87	0.16	0.26		3J	4D	8.67
0.15 - 0.18	5.1B 6.3H	2B	0.59A	0.37	0.02	0.16		1J	1.14D	16.00
0.18 - 0.5	6.3B 7.6H	14B	3.05A	5.84	0.35	2.71		11J	11.95D	24.64
0.5 - 0.65	8.8B 9.8H	48B	6.64E	8.31	0.51	5.26		17J	20.72D	30.94
0.65 - 0.9	9B 10H	65B	4.62E	12.3	0.7	8.92		25J	26.54D	35.68
0.9 - 1	8.8B 9.8H	49B	4.34E	11.38	0.97	10.76		26J	27.45D	41.38

Depth m	CaCO3 %	Organic C Clay %	Avail. P mg/kg	Total P %	Total N %	Total K %	Bulk Density Mg/m3	Particle GV	Size CS	Analysis FS	Silt
0 - 0.15 1.7		1.65D		110B	0.128E						1.2
0.15 - 0.18 1.8		0.3D		26B	0.02E						1.1
0.18 - 0.5 23		0.41D		22B	0.034E						1.3
0.5 - 0.65 27.5	<2C	0.13D		15B	0.014E						2.7
0.65 - 0.9 24.1	<2C	0.11D		15B	0.01E						11.1
0.9 - 1 11.9	3C	0.09D		17B	0.011E						10.6

Laboratory Analyses Completed for this profile

12C1	Calcium chloride extractable boron - manual colour
15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CEC	CEC - meq per 100g of soil - Not recorded
15_NR_CMR	Exchangeable bases (Ca/Mg ratio) - Not recorded
15A1_CA for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_K for soluble	salts Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_MG for soluble	salts Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_NA for soluble	salts Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15C1_CA pretreatment for	salts Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5,
15C1_K soluble salts	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	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
19B_NR	Calcium Carbonate (CaCO3) - Not recorded
3_NR	Electrical conductivity or soluble salts - Not recorded

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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
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)