

Project Name: Jerramungup soils inventory (=JER LRS)
Project Code: JSI **Site ID:** 0482 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Tim Overheu	Locality:	
Date Desc.:	03/03/94	Elevation:	200 metres
Map Ref.:		Rainfall:	400
Northing/Long.:	6223700 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	688300 Datum: AGD84	Drainage:	Imperfectly drained

Geology

ExposureType:	Existing vertical exposure	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	No Data

Land Form

Rel/Slope Class: Gently undulating plains <9m 1-3% **Pattern Type:** Rises

Morph. Type:	Simple-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	%	Aspect:	No Data

Surface Soil Condition Firm, Hardsetting

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

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Eutrophic Mottled-Hypernatric Yellow Sodosol		Principal Profile Form:	Dy5.42
ASC Confidence:		Great Soil Group:	N/A
Analytical data are incomplete but reasonable confidence.			

Site Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation:

Surface Coarse No surface coarse fragments; No surface coarse fragments

Profile

Ap	0 - 0.15 m	Greyish brown (10YR5/2-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; Sandy (grains mm),
		prominent) fabric; Dry; Loose consistence; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm),
		Concretions; Water repellent; Field pH 6.5 (pH meter); Abrupt change to -
A21	0.15 - 0.24 m	Very pale brown (10YR7/3-Moist); , 0-0% ; Sand; Single grain grade of structure; Sandy (grains mm),
		prominent) fabric; Dry; Loose consistence; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm),
		Concretions; Field pH 6.5 (pH meter); Abrupt change to -
B21	0.24 - 0.44 m	Brownish yellow (10YR6/6-Moist); , 5YR68, 20-50% , 5-15mm, Distinct; Light medium clay; Strong grade
		of structure, 10-20 mm, Columnar; Moderate grade of structure, 2-5 mm, Polyhedral;
		Smooth-ped fabric;
		Dry; Very firm consistence; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm),
		Concretions; Field pH
		7.5 (pH meter); Clear change to -
B22	0.44 - 0.8 m	Olive yellow (2.5Y6/6-Moist); ; Light medium clay; Massive grade of structure; Sandy (grains prominent)
		fabric; Moderately moist; Firm consistence; Field pH 7.8 (pH meter); Sharp change to -
R	0.8 - m	Rock

Morphological Notes

Observation Notes

Site Notes

Profile; haven't come across this soil before - but only similar varieties. Duplex soil - probably come across a similar one at ravensthorpe
jsislo1 or jsiwro4. Site 482 observation sand/red-brown mottled, columnar clay.

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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 - 0.15	5.1B 6H	8B	3.62H	1.32	0.27	0.24	0.1J		5.45D	
0.15 - 0.24	5.7B 7.2H	3B	0.45A	0.28	0.03	0.16		1J	0.92D	16.00
0.24 - 0.44	6.6B 7.9H	21B	2.34A	4.79	0.97	2.86		10J	10.96D	28.60
0.44 - 0.8	7.9B 8.7H	74B	2.1E	4.4	0.48	3.71		12J	10.69D	30.92

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	%	mg/kg	%	%	%	Mg/m3	GV CS FS Silt
0 - 0.15		2.17D		180B	0.164E			
4.1								3.7
0.15 - 0.24		0.22D		59B	0.015E			2.8
2.2								
0.24 - 0.44	<2C	0.29D		38B	0.022E			4.4
39.6								
0.44 - 0.8	<2C	0.12D		46B	0.012E			4.8
41.6								

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	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_K	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_MG	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_NA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15C1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5,
pretreatment for	soluble salts
15C1_K	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
soluble salts	
15C1_MG	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
soluble salts	
15C1_NA	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
soluble salts	
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
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
4_NR	pH of soil - Not recorded

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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)