

Project Name: Jerramungup soils inventory (=JER LRS)
Project Code: JSI **Site ID:** 1138 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Tim Overheu	Locality:	
Date Desc.:	16/11/94	Elevation:	No Data
Map Ref.:		Rainfall:	450
Northing/Long.:	6238975 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	678994 Datum: AGD84	Drainage:	Moderately well 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:** Plain

Morph. Type:	Simple-slope	Relief:	5 metres
Elem. Type:	Plain	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
Sodic Magnesic Grey Dermosol	Principal Profile Form:	Dy
ASC Confidence:	Great Soil Group:	N/A

Analytical data are incomplete but reasonable confidence.

Site Extensive clearing, for example poisoning, ringbarking

Vegetation:

Surface Coarse 10-20%, medium gravelly, 6-20mm, subangular, Quartz; 0-2%, , subangular, Quartz

Profile

Ap	0 - 0.06 m	Dark greyish brown (10YR4/2-Moist); , 0-0% ; Sandy loam; Single grain grade of structure; Sandy (grains prominent) fabric; Moderately moist; Very weak consistence; Field pH 5.4 (pH meter); Abrupt change to -
B1	0.06 - 0.27 m	Light brown (7.5YR6/4-Moist); Mottles, 10YR73, 2-10% , 5-15mm, Distinct; Light medium clay; Strong grade of structure, 10-20 mm, Subangular blocky; Rough-ped fabric; Moderately moist; Very firm consistence; Field pH 4.9 (pH meter); Abrupt change to -
B21	0.27 - 0.79 m	Light brownish grey (10YR6/2-Moist); Mottles, 10YR82, 10-20% , 15-30mm, Distinct; Light medium clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Weak consistence; Field pH 4.5 (pH meter); Clear change to -
C	0.79 - 1.59 m	White (10YR8/2-Moist); Mottles, 10YR63, 10-20% , 15-30mm, Distinct; Light medium clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Weak consistence; Field pH 4.3 (pH meter);

Morphological Notes

Observation Notes

Site Notes

Alluvial deposit within valley system. B21 may have had greenish grey gley coloured mottles but very hard to distinguish.

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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 - 0.06	5.4B 5.8H	300B	4.6H	4.2	0.33	2.8	0.04J		11.93D	
0.06 - 0.27	5B 5.8H	73B	0.49H	2.6	0.22	2.4	0.04J		5.71D	
0.27 - 0.79	4.7B 5.1H	140B	0.11H	2.5	0.15	2.3	0.03J		5.06D	
0.79 - 1.59	4.8B 5H	180B	0.02H	0.92	<0.02	0.49	0.04J		1.44D	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	Clay %	mg/kg	%	%	%	Mg/m3	GV CS FS Silt
0 - 0.06		2.12D		120B	0.111E	1.2A		9.5
23								
0.06 - 0.27		0.82D		51B	0.038E	0.67A		16.3
65.2								
0.27 - 0.79		0.14D		40B	0.008E	0.67A		24.5
57.4								
0.79 - 1.59		0.06D		53B	0.005E	0.59A		27.1
22.9								

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
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
17A1	Total Potassium - X-ray fluorescence
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
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)

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