

Project Name: Jerramungup soils inventory (=JER LRS)
Project Code: JSI **Site ID:** 1146 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Tim Overheu	Locality:	
Date Desc.:	23/11/94	Elevation:	80 metres
Map Ref.:		Rainfall:	500
Northing/Long.:	6208711 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	699089 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:	Level plain <9m <1%	Pattern Type:	Sand plain
Morph. Type:	No Data	Relief:	2 metres
Elem. Type:	Plain	Slope Category:	No Data
Slope:	1 %	Aspect:	No Data

Surface Soil Condition Loose

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

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Grey Chromosol		Principal Profile Form:	Dy5.82
ASC Confidence:		Great Soil Group:	N/A
Analytical data are incomplete but reasonable confidence.			

Site Cultivation. Rainfed

Vegetation:

Surface Coarse 20-50%, medium gravelly, 6-20mm, subrounded, Gravel; No surface coarse fragments

Profile

Ap	0 - 0.16 m	Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Loamy fine sand; Single grain grade of structure;
Medium (2 -6		Sandy (grains prominent) fabric; Dry; Loose consistence; Many (20 - 50 %), Ferruginous, mm), Concretions; Water repellent; Field pH 7 (pH meter); Clear change to -
A21	0.16 - 0.7 m	Very pale brown (10YR7/4-Moist); ; Sand; Single grain grade of structure; Sandy (grains prominent)
		mm), fabric; Dry; Very weak consistence; Very many (50 - 100 %), Ferruginous, Medium (2 -6 mm), Concretions; Water repellent; Field pH 6.6 (pH meter); Clear change to -
B21	0.7 - 1.42 m	Light grey (10YR7/2-Moist); Mottles, 10YR74, 10-20% , 5-15mm, Distinct; Light medium clay; Massive
		grade of structure; Sandy (grains prominent) fabric; Moderately moist; Very firm consistence; Very many
		(50 - 100 %), Ferruginous, Medium (2 -6 mm), Concretions; Field pH 7.8 (pH meter);

Morphological Notes

A21	ABUNDANT GRAVEL AND SAND
B21	GRAVEL WITH DENSE CLAY MATRIX - INDURATED?

Observation Notes

Site Notes

Duplex soil - sand over gravel over clay on a typical level to gently undulating plain. Area at southern most extention of yilgarn block before bremer and hillup coastal sediments.

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na	Acidity			%
						Cmol (+)/kg				
0 - 0.16	4.7B 5.4H	10B	2.6H	0.57	0.14	0.16	0.24J		3.47D	
0.16 - 0.7	5.1B 5.7H	6B	0.97H	0.54	0.1	0.23	0.13J		1.84D	
0.7 - 1.42	5.9B 6.4H	11B	0.6H	2.8	0.17	1	0.14J		4.57D	

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 - 0.16		1.77D		95B	0.129E	0.12A			2.5
3.5									
0.16 - 0.7		0.33D		26B	0.03E	0.12A			4.7
25.7									
0.7 - 1.42		0.12D		22B	0.009E	0.17A			4.7
25.7									

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMRR	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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