

Project Name: Jerramungup soils inventory (=JER LRS)
Project Code: JSI **Site ID:** 1065 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Tim Overheu	Locality:	
Date Desc.:	28/09/94	Elevation:	No Data
Map Ref.:		Rainfall:	340
Northing/Long.:	6333966 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	750754 Datum: AGD84	Drainage:	Moderately well 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:	Gently undulating plains <9m 1-3%	Pattern Type:	Sand plain
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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:	N/A	Mapping Unit:	N/A
ASC Confidence:	Confidence level not specified	Principal Profile Form:	Um4.13
		Great Soil Group:	N/A

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

Vegetation:

Surface Coarse 10-20%, medium gravelly, 6-20mm, subrounded, Gravel; No surface coarse fragments

Profile

Ap	0 - 0.05 m	Strong brown (7.5YR4/6-Moist); , 0-0% ; Sandy clay loam; Single grain grade of structure; Sandy
		(grains prominent) fabric; Dry; Very weak consistence; Common (10 - 20 %), Ferruginous, Fine (0 - 2 mm), Concretions; Field pH 7.8 (pH meter); Abrupt change to -
B1	0.05 - 0.1 m	Strong brown (7.5YR4/6-Moist); , 0-0% ; Sandy clay loam; Single grain grade of structure; Sandy
		(grains prominent) fabric; Dry; Weak consistence; Common (10 - 20 %), Ferruginous, Medium (2 -6 mm), Concretions; Field pH 6.8 (pH meter); Abrupt change to -
B21	0.1 - 0.64 m	Yellowish brown (10YR5/6-Moist); ; Sandy clay loam; Massive grade of structure; Sandy
(grains		prominent) fabric; Dry; Loose consistence; Very many (50 - 100 %), Ferruginous, Very coarse (20 - 60 mm), Concretions; Field pH 5.8 (pH meter); Clear change to -
B22	0.64 - 0.9 m	Strong brown (7.5YR5/6-Moist); ; Clayey sand; Massive grade of structure; Sandy (grains
prominent)		fabric; Dry; Loose consistence; 10-20%, cobbly, 60-200mm, subrounded, Ferricrete, coarse fragments; Very many (50 - 100 %), Ferruginous, Coarse (6 - 20 mm), Concretions; Field pH 5.8 (pH meter); Clear change to -
B23	0.9 - 1.22 m	Yellowish brown (10YR5/8-Moist); ; Fine sandy clay loam; Massive grade of structure; Sandy (grains
		prominent) fabric; Moderately moist; Loose consistence; 2-10%, medium gravelly, 6-20mm, subangular, Ferricrete, coarse fragments; Many (20 - 50 %), Ferruginous, Coarse (6 - 20 mm), Concretions; Field pH 5.5 (pH meter);

Morphological Notes

Observation Notes

Site Notes

Narrow exposure (linear) of a dolerite dyke soil (approx 20m across), no rocks on the surface (except for some silcrete). Red clay = kumarl
soil; ironstone dark gravel - ap; very blocky structure throughout; ap horizon crumbly, hardsetting

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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 - 0.05	5.5B 6.3H	3B	3.9H	1.7	0.42	0.09	0.02J		6.11D	
0.05 - 0.1	5.3B 6.1H	4B	3.2H	1.3	0.37	0.09	0.02J		4.96D	
0.1 - 0.64	4.4B 5H	5B	1.5H	2	0.05	0.12	0.28J		3.67D	
0.64 - 0.9	4.1B 5H	8B	0.14H	3.2	0.06	0.4	0.43J		3.8D	
0.9 - 1.22	4.4B 5.1H	8B	0.1H	3.2	0.14	0.58	0.18J		4.02D	

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 - 0.05		1.27D		150B	0.085E			10.1
13.2								
0.05 - 0.1		0.87D		57B	0.047E			9.2
17.1								
0.1 - 0.64		0.34D		31B	0.034E			6.1
27.9								
0.64 - 0.9		0.2D		23B	0.02E			5.4
26								
0.9 - 1.22		0.12D		20B	0.018E			7.4
34.8								

Laboratory Analyses Completed for this profile

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