

Project Name: Jerramungup soils inventory (=JER LRS)
Project Code: JSI **Site ID:** 1060 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Tim Overheu	Locality:	
Date Desc.:	27/09/94	Elevation:	359 metres
Map Ref.:		Rainfall:	325
Northing/Long.:	6334692 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	748952 Datum: AGD84	Drainage:	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:	Peneplain
Morph. Type:	Simple-slope	Relief:	5 metres
Elem. Type:	Plain	Slope Category:	No Data
Slope:	%	Aspect:	No Data

Surface Soil Condition Firm

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:	Gc1.12
		Great Soil Group:	N/A

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

Vegetation:

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

Profile

Ap	0 - 0.1 m	Dark brown (10YR3/3-Moist); , 0-0% ; Fine sandy clay loam; Moderate grade of structure, 5-10 mm, Polyhedral; Rough-ped fabric; Very weak consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 9.5 (pH meter); Abrupt change to -
A3	0.1 - 0.17 m	Brown (10YR4/3-Moist); , 0-0% ; Sandy clay loam; Single grain grade of structure; Sandy (grains prominent) fabric; Loose consistence; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Nodules; Water repellent; Field pH 9.8 (pH meter); Clear change to -
B1	0.17 - 0.3 m	Brown (10YR5/3-Moist); , 0-0% ; Clay loam, sandy; Single grain grade of structure; Sandy (grains prominent) fabric; Loose consistence; Very many (50 - 100 %), Calcareous, Coarse (6 - 20 mm), Nodules; Clear change to -
B21tk	0.3 - 1 m	Yellowish brown (10YR5/4-Moist); , 20-50% ; Light clay; Massive grade of structure; Sandy (grains prominent) fabric; Weak consistence; 10-20%, coarse gravelly, 20-60mm, subrounded, Limestone, coarse fragments; Many (20 - 50 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 9.8 (pH meter); Gradual change to -
Ck	1 - 1.3 m	Brown (7.5YR5/4-Moist); Mottles, 2.5Y83, 20-50% , 30-mm, Faint; Light clay; Massive grade of structure; Sandy (grains prominent) fabric; Weak consistence; 2-10%, cobbly, 60-200mm, subrounded, Limestone, coarse fragments; Many (20 - 50 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 9.8 (pH meter);

Morphological Notes

A3	THIS HORIZON IS HYDROPHOBIC
B1	THIS HORIZON IS HYDROPHOBIC

Observation Notes

Site Notes

Gravel pit; shallow gravel - laterite pan at depth.

Project Name: Jerramungup soils inventory (=JER LRS)
Project Code: JSI **Site ID:** 1060 **Observation** 1
Agency Name: Agriculture Western Australia

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 - 0.1	8.3B 8.5H	600B	5.6E	4.6	2.9	3.6		12J	16.7D	30.00
0.1 - 0.17	8.6B 9.8H	120B	1.9E	3.7	2.2	5.5		11J	13.3D	50.00
0.17 - 0.3	8.8B 9.8H	120B	0.9E	3	1.7	6.7		8J	12.3D	83.75
0.3 - 0.5	8.7B 9.6H	150B	0.83E	3	1.7	4.6		8J	10.13D	57.50
0.5 - 1	8.6B 9.4H	160B	0.59E	3	1.8	3.6		7J	8.99D	51.43
1 - 1.3	8.6B 9.4H	180B	0.73E	2.9	1.8	3.9		7J	9.33D	55.71

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 - 0.1	10C	1.41D		260B	0.13E			13
0.1 - 0.17	34C	0.7D		110B	0.072E			20.2
0.17 - 0.3	54C	0.32D		47B	0.03E			20.3
0.3 - 0.5		0.18D		27B	0.014E			28.2
0.5 - 1		0.14D		25B	0.01E			27.9
1 - 1.3	33C	0.16D		41B	0.01E			27.8

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_CMV	Exchangeable bases (Ca/Mg ratio) - Not recorded
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
15J_BASES	Sum of Bases
15L1_a	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using and measured clay
Sum of Cations	
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
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)

Project Name: Jerramungup soils inventory (=JER LRS)
Project Code: JSI **Site ID:** 1060 **Observation** 1
Agency Name: Agriculture Western Australia

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)