

Project Name: Jerramungup soils inventory (=JER LRS)
Project Code: JSI **Site ID:** 1164 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Tim Overheu	Locality:
Date Desc.: 17/11/94	Elevation: 268 metres
Map Ref.:	Rainfall: 450
Northing/Long.: 6233049 AMG zone: 50	Runoff: No Data
Easting/Lat.: 675451 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: Undulating rises 9-30m 3-10%	Pattern Type: Flood plain
Morph. Type: Flat	Relief: No Data
Elem. Type: Terrace plain	Slope Category: No Data
Slope: %	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
Melanic Regolithic Chernic Tenosol	Principal Profile Form: Um1.23
ASC Confidence:	Great Soil Group: N/A
All necessary analytical data are available.	

Site Extensive clearing, for example poisoning, ringbarking

Vegetation:

Surface Coarse No surface coarse fragments; No surface coarse fragments

Profile

Ap 0 - 0.2 m Sandy (grains meter); Clear	Dark brown (10YR3/3-Moist); , 0-0% ; Loamy fine sand; Single grain grade of structure; prominent) fabric; Dry; Very weak consistence; Strongly water repellent, "Field pH 5.8 (pH change to -
A1b 0.2 - 0.4 m Sandy (grains Igneous rock	Dark brown (7.5YR3/2-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; prominent) fabric; Dry; Very weak consistence; 0-2%, medium gravelly, 6-20mm, angular, (unidentified), coarse fragments; Field pH 6.5 (pH meter); Clear change to -
B21b 0.4 - 0.6 m sand; Single pH 6.5 (pH	Dark yellowish brown (10YR4/6-Moist); Mottles, 7.5YR66, 20-50% , 0-5mm, Faint; Loamy grain grade of structure; Sandy (grains prominent) fabric; Dry; Weak consistence; Field meter); Clear change to -
A21b 0.6 - 0.86 m Sandy (grains Clear change to -	Dark brown (10YR3/3-Moist); , 0-0% ; Loamy fine sand; Single grain grade of structure; prominent) fabric; Moderately moist; Very weak consistence; Field pH 7.7 (pH meter);
B21b 0.86 - 1 m clay loam; consistence;	Dark yellowish brown (10YR3/4-Moist); Mottles, 10YR56, 10-20% , 0-5mm, Faint; Sandy Single grain grade of structure; Sandy (grains prominent) fabric; Moderately moist; Weak Field pH 7.8 (pH meter); Clear change to -
B22b 1 - 1.55 m Single grain consistence; Field pH	Yellowish brown (10YR5/4-Moist); Mottles, 10YR74, 2-10% , 0-5mm, Faint; Clayey sand; grade of structure; Sandy (grains prominent) fabric; Moderately moist; Very weak 7.7 (pH meter);

Morphological Notes

Observation Notes

Site Notes

High in lanscape on a sandplain. Christmas tree soil. Drainage system ridge. Deep gritty sand. Common name munge sand

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Laboratory Test Results:

Depth m	pH	1:5 EC dS/m	Ca	Exchangeable Mg	Cations K	Na Cmol (+)/kg	Exchangeable Acidity	CEC	ECEC	ESP %
0 - 0.2	5.1B 5.8H	10B	3.9H	0.91	0.43	0.23	0.06J		5.47D	
0.2 - 0.4	6B 6.8H	2B	3.3A	0.57	0.32	0.13			4.32D	
0.4 - 0.6	6.8B 7.8H	3B	3.9A	1.6	0.27	0.22			5.99D	
0.6 - 0.86	7.1B 8.3H	3B	2.9E	1.3	0.22	0.24		6B	4.66D	4.00
0.86 - 1	7.1B 8.4H	2B	2.5E	1.4	0.25	0.26		5B	4.41D	5.20
1 - 1.5	7.1B 8.6H	2B	0.92E	0.59	0.11	0.14		2B	1.76D	7.00

Depth m	CaCO3 %	Organic C Clay %	Avail. P mg/kg	Total P %	Total N %	Total K %	Bulk Density Mg/m3	Particle GV	Size CS	Analysis FS	Silt
0 - 0.2 4.6		1.1D		150B	0.086E	1.5A					5.8
0.2 - 0.4 5.1		0.35D		55B	0.023E	1.5A					6.3
0.4 - 0.6 8.9		0.29D		39B	0.022E	1.6A					6.4
0.6 - 0.86 7.1	<2C	0.21D		38B	0.016E	1.7A					6.1
0.86 - 1 8.6	<2C	0.16D		32B	0.016E	1.6A					4
1 - 1.5 2.9	<2C	0.03D		22B	0.007E	1.6A					9.4

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_CMR	Exchangeable bases (Ca/Mg ratio) - Not recorded
15A1_CA for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
	salts
15A1_CEC	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_K for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
	salts
15A1_MG for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
	salts
15A1_NA for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
	salts
15C1_CA pretreatment for	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5,
	soluble salts
15C1_CEC	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
	soluble salts
15C1_MG soluble salts	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 (Ca ²⁺ ,Mg ²⁺ ,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 (Mn ²⁺) by compulsive exchange, no pretreatment for soluble salts
15E1_NA	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts

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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
17A1	Total Potassium - X-ray fluorescence
19B_NR	Calcium Carbonate (CaCO ₃) - Not recorded
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)