Project Code:	Jerramungup soils invento JSI Site ID: Agriculture Western Austra	1160 C	Observation ID:	1
Date Desc.:28Map Ref.:28Northing/Long.:62Easting/Lat.:63	im Overheu 3/11/94 257562 AMG zone: 50 72897 Datum: AGD84	Locality: Elevation: Rainfall: Runoff: Drainage:	255 metres 385 No Data Imperfectly draine	d
Geol. Ref.: N	oil pit lo Data	Conf. Sub. is Pare Substrate Materia		-
Land Form Rel/Slope Class: G	Gently undulating plains <9m 1-39	%	Pattern Type:	Plain
Elem. Type: P Slope: S Surface Soil Cond		•	No Data No Data No Data	
(stbank)	(scald) (sheet) (rill) (mass) (gu (tunnel)	ılly)		
ASC Confidence:	<b>sification:</b> pernatric Yellow Sodosol ical data are available. Cultivation. Rainfed	Princi Great	ing Unit: pal Profile Form: Soil Group: gular, Quartz; No sur	N/A Dy3.11 N/A rface coarse
Profile Ap 0 - 0.1 m structure; Sandy	Very dark greyish brown (10 (grains prominent) fabric; Di	,		
subangular,	Quartz, coarse fragments; F		-	
B21 0.1 - 0.4 m medium clay;	Light yellowish brown (2.5Y			-
consistence; 0-2%, Clear change to -	Moderate grade of structure fine gravelly, 2-6mm, suban	-		
B22 0.4 - 0.6 m Medium clay; moist; Firm	Light yellowish brown (2.5Y) Moderate grade of structure consistence; Field pH 7.5 (p	, 2-5 mm, Subangul	ar blocky; Smooth-p	
C 0.6 - 1 m clay; Moderate	Light grey (10YR7/2-Moist);	Mottles, 2.5YR48, 2	20-50% , 5-15mm, Pi	rominent; Medium
Firm consistence;	grade of structure, 5-10 mm Field pH 7.7 (pH meter); Ab		; Smooth-ped fabric;	; Moderately moist;
D 1 - 1.3 m Firm	Pinkish grey (5YR7/2-Moist)		5-15mm, Prominent	t; Moderately moist;
Firm 7.3 (pH meter);	consistence; 2-10%, fine gra	avelly, 2-6mm, angu	lar, Quartz, coarse fi	ragments; Field pH

Morphological NotesCALSO MOTTLES CFP 2.5Y 8/2 RDALSO MOTTLES CMP 2.5YR 5/6.

# **Observation Notes**

Soil more orange than expected

Project Name:	Jerramungup s	oils invento	ory (=JER LRS	)	
Project Code:	JSI	Site ID:	1160	Observation	1
Agency Name:	Agriculture Wes	stern Austr	alia		

## Laboratory Test Results:

Depth	рН	1:5 EC	Ex Ca	changeabl Mg	e Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Ga	Mg	n		(+)/kg			%
0 - 0.1	5.2B 5.6H	78B	3.4H	3	0.05	0.97	0.06J		7.42D	
0.1 - 0.4	7.9B 8.5H	140B	1.6E	6	0.74	3.8		14B	12.14D	27.14
0.4 - 0.6	7.8B 8.4H	160B	1.1E	5.8	0.83	4.7		14B	12.43D	33.57
0.6 - 1	7.3B 7.8H	200B	0.55A	5.4	0.57	4.6			11.12D	
1 - 1.3	6B 6.2H	330B	0.34H	4.8	0.31	2.7	<0.02J	7E	8.15D	38.57

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV CS	Size Analysis FS Silt
m	%	%	mg/kg	%	%	%	Mg/m3		%
0 - 0.1 11.7		1.34D		110B	0.067E	0.5A			3.7
0.1 - 0.4 51.8	<2C	0.12D		26B	0.012E	0.48A			3.3
0.4 - 0.6 58.2	<2C	0.09D		22B	0.007E	0.4A			5.8
0.6 - 1 53	<2C	0.08D		20B	0.006E	0.29A			11.8
1 - 1.3 51.8		0.1D		19B	<0.005E	0.04A			13.1

### Laboratory Analyses Completed for this profile

12C1 15_NR_BSa 15_NR_CMR 15A1_CA for soluble	Calcium chloride extractable boron - manual colour Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available Exchangeable bases (Ca/Mg ratio) - Not recorded Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_CEC	salts
15A1_K	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_MG	salts
for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_NA	salts
for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15C1_CA pretreatment for	salts Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5,
15C1_CEC	soluble salts
15C1_K	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15C1_MG soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15C1_NA soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15E1_AL	Exchangeable AI - 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_CEC	
15E1_K	
15E1_MG	
15E1_MN	
15E1_NA	
15J_BASES	

CEC by compulsive exchange, no pretreatment for soluble salts Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Exchangeable bases (Mn2+) by compulsive exchange, no pretreatment for soluble salts Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts

Project Name: Project Code: Agency Name:	Jerramungup soils inventory (=JER LRS) JSI Site ID: 1160 Observation 1 Agriculture Western Australia
15L1_a Sum of Cations	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using
	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 (CaCO3) - 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)