Project Name: PEM
Project Code: PEM **Site ID:** P320 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (WA)

Site Information

Desc. By:	M.J. Mulcahy	**Locality:**	0.5KM east of Gloucester Tree Pemberton:
Date Desc.:	16/11/56	**Elevation:**	No Data
Map Ref.:	Sheet No. : 2129 1:100000	**Rainfall:**	0
Northing/Long.:	116.066666666667	**Runoff:**	Very rapid
Easting/Lat.:	-34.4333333333334	**Drainage:**	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:	No Data	**Pattern Type:**	No Data
Morph. Type:	Mid-slope	**Relief:**	No Data
Elem. Type:	Hillslope	**Slope Category:**	Steep
Slope:	0 %	**Aspect:**	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Basic Paralithic Orthic Tenosol
ASC Confidence:
All necessary analytical data are available.

Mapping Unit: N/A
Principal Profile Form: Gn2.15
Great Soil Group: Red earth

Site Disturbance: No effective disturbance. Natural

Vegetation:

Tall Strata - Tree, , . *Species includes - None Recorded

Surface Coarse Fragments:

Profile Morphology

0 - 0.02 m	Dark brown (7.5YR3/4-Moist); ; Sandy loam; ; FragmentWeak consistence; 2-10%, Substrate material, coarse fragments; Clear change to -
0.02 - 0.25 m	Dark reddish brown (2.5YR3/4-Moist); ; Sandy loam; ; FragmentWeak consistence; 20-50%, Substrate material, coarse fragments; ManyGradual change to -
0.25 - 0.62 m	Reddish brown (2.5YR4/4-Moist); ; Sandy loam; ; FragmentWeak consistence; 20-50%, Substrate material, coarse fragments; Gradual change to -
0.62 - 0.87 m	Reddish brown (2.5YR4/4-Moist); ; Loam; ; FragmentWeak consistence; 20-50%, Substrate material, coarse fragments; Diffuse change to -
1 - 1.19 m	Brown (7.5YR5/4-Moist); ; Clay loam; , Platy; Slightly plastic; Normal plasticity; 20-50%, Substrate material, coarse fragments; Gradual change to -
1.19 - 1.52 m	;

Morphological Notes

Weathered rock:

Observation Notes

0-63CM AL GV IS FERRUGINOUS:63-119CM AL GV IS DECOMPOSED ROCK:

Site Notes

PEMBERTON

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%
0 - 0.02	6.7A	0.065A	9.3K	10.7	0.53	0.4	24.6E		45.5B	
0.02 - 0.25	6.7A	0.045A	5.8K	1.8	0.34	0.21	20.4E		28.6B	
0.25 - 0.62	7A	0.03A								
0.62 - 0.87	7A	0.024A	2.1K	0.7	0.08	0.12	2.7E		5.7B	
1 - 1.19	6.6A	0.027A								
1.19 - 1.52										

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis				
								GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.02		9.48D		0.021D	0.349B				20D	48	13	4
0.02 - 0.25				0.016D	0.162B				24D	50	13	4
0.25 - 0.62												
0.62 - 0.87				0.011D					20D	56	12	12
1 - 1.19									34D	40	12	14
1.19 - 1.52				0.014D								

Depth	COLE	Gravimetric/Volumetric Water Contents						K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar		
m		g/g - m3/m3							mm/h	mm/h
0 - 0.02										
0.02 - 0.25										
0.25 - 0.62										
0.62 - 0.87										
1 - 1.19										
1.19 - 1.52										

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Laboratory Analyses Completed for this profile

15_NR_CA	Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded
15_NR_K	Exch. basic cations (K++) - meq per 100g of soil - Not recorded
15_NR_MG	Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded
15_NR_NA	Exch. basic cations (Na++) - meq per 100g of soil - Not recorded
15G1_H	Hydrogen Cation - meq per 100g of soil - 1M KCl Exch. Acidity By titration to pH 8.0
15J_H	Sum of Ex. cations + Ex. acidity - Sum of basic exch. cations and exch. (Hydrogen)
2_LOI	Loss on Ignition (%)
2A1	Air-dry moisture content
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
5A2	Chloride - 1:5 soil/water extract, automated colour
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7_NR	Total nitrogen (%) - Not recorded
9A_HCL	Total element - P(%) - By boiling HCl
P10_PB_C	Clay (%) - Plummet balance
P10_PB_CS	Coarse sand (%) - Plummet balance
P10_PB_FS	Fine sand (%) - Plummet balance
P10_PB_Z	Silt (%) - Plummet balance