Project Name: Project Code: Agency Name	ED : CS	il Studies in the Lower N GEROI Site ID: IRO Division of Soils (QI	ed220	Observation	n ID: ′	1			
Site Information Desc. By:		prevaar	Locality:	Departmer	nt of Agi	riculture, Myall Vale Research			
Date Desc.: Map Ref.: Northing/Long.: Easting/Lat.: <u>Geology</u>	66562 7520	t No. : 8837_N 1:50000 230 AMG zone: 55 70 Datum: AGD66	Elevation: Rainfall: Runoff: Drainage: Conf. Sub. is Pa	Station 201 metres No Data No Data No Data	s No Data				
ExposureType: Geol. Ref.:	No D	sturbed soil core lata	Substrate Materi		No Data				
Land Form Rel/Slope Class Morph. Type: Elem. Type: Slope: Surface Soil C	No D Terra 0 %	ata ace flat	Pattern Type: Relief: Slope Category: Aspect:	No Data No Data Level No Data	No Data Level				
Erosion:		<u>Sen-Indiching, Re</u>	ecentry cultivated						
Soil Classifica Australian Soil		cation:	Мар	ping Unit:		N/A			
N/A ASC Confidence Confidence leve		ecified	Principal Profile Form: Ug5.15 Great Soil Group: Grey clay						
	<u>псе:</u> Си	ultivation. Rainfed							
Vegetation: Surface Coars	se Frag	ments:							
Profile Morphe	ology								
A11p 0 - 0.1 ı	m	Very dark greyish brown (10 clay; Moderate grade of str crack; Moderately moist; S	ucture, 20-50 mm,	Subangular b	locky; E	arthy fabric; Fine, (0 - 5) mm			
A12p 0.1 - 0.1	2 m	Very dark greyish brown (10YR3/2-Moist); , 10YR63, 0-2% , 0-5mm, Faint; Medium heavy of Moderate grade of structure, 20-50 mm, Subangular blocky; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Firm consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 8.5 (pH mo Clear, Smooth change to -							
A13 0.2 - 0.4	55 m	Dark brown (7.5YR3/2-Moist); , 10YR74, 0-2% , 0-5mm, Distinct; Medium clay; Weak grade of structure, 20-50 mm, Subangular blocky; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Firm consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 8.3 (pH meter);							
A14 0.55 - 1	l.14 m	Dark brown (7.5YR3/2-Mois of structure, 20-50 mm, Sub per 100mm2) Very fine (0.0 few (0 - 2 %), Calcareous, F change to -	oangular blocky; Sn 75-1mm) macropol	nooth-ped fabr res, Moderatel	ric; Fine y moist	Weak consistence; Very			
B21 1.14 - 1	.9 m	Brown (7.5YR4/4-Moist); , 7 of structure, 50-100 mm, Su Common (1-5 per 100mm2) consistence; Few (2 - 10 %)	bangular blocky; S Very fine (0.075-1	mooth-ped fat mm) macropo	oric; Fin res, Mo	derately moist; Weak			
B22 1.9 - 2.0	68 m	Brown (7.5YR4/4-Moist); , 10YR41, 2-10% , 15-30mm, Distinct; , 10YR71, 0-2% , 5-15mm, Faint; Light medium clay; Weak grade of structure, 20-50 mm, Subangular blocky; Moderate grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Weak consistence; Few cutans, <10% of ped faces or walls coated; Few (2 - 10%), Argilaceous, Coarse (6 - 20 mm), Veins; Very few (0 - 2%), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.7 (pH meter);							
Morphologica	l Notes	5							

Morphological Notes

Observation Notes Parent Rock: alluvial sediment, clay, parna on fourth fan, Namoi

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Observation ID: 1

Site Notes

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Project Code:	EDGEROI	Site ID:	ed220	Observation ID:
Agency Name:	CSIRO Divisio	on of Soils (C	QLD)	

Laboratory Test Results:

Depth	рН	1:5 EC		changeabl		N .	Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	К	Na Cmol	Acidity (+)/kg			%
0 - 0.02	8.5A	0.1734	A 26.94B	13.2	1.72	0.83				
0 - 0.1	8.52A	0.1654	A 26.41B	14.93	1.7	1.09				
0.1 - 0.2	8.56A	0.137/	A 26.05B	15.43	1.34	1.31				
0.3 - 0.4	8.97A	0.163/	A 22.51B	18.56	0.88	2.85				
0.7 - 0.8	9.19A	0.287	A 15.95B	19.2	0.8	7.12				
1.2 - 1.3	9.37A	0.3334	A 12.32B	17.18	0.9	7.35				
2.5 - 2.6	8.99A	0.7154	A 13.84B	20	0.93	10.14				

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Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	P	article	Size	Analysi	s
		С	Р	Р	N	K	Density	GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.02	0.2B	0.85C									20.9	60.8
0 - 0.1	0.2B	0.78C	14.7J								20	62.5
0.1 - 0.2	0.4B	0.75C	6.5J								20.4	61.6
0.3 - 0.4	1.3B	0.51C	1.9J								22.2	62.5
0.7 - 0.8	1.1B	0.44C	4.2J								23.1	61.7
1.2 - 1.3	1B	0.24C	22.5J								24.2	62.3
2.5 - 2.6	0.9B	0.11C	13.9J								16.3	67.5

Depth	COLE	Gravimetric/Volumetric Water Contents								K unsat
m		Sat.	0.05 Bar	0.1 Bar g/	0.5 Bar /g - m3/m3	1 Bar 3	5 Bar	15 Bar	mm/h	mm/h

0 - 0.02 0 - 0.1 0.1 - 0.2 0.3 - 0.4 0.7 - 0.8 1.2 - 1.3 2.5 - 2.6

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Observation ID: 1

Laboratory Analyses Completed for this profile

15A2_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_K	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_MG	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_NA	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
19B1	Carbonates - manometric
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
6B3	Total organic carbon - high frequency induction furnace, infrared
7B1	Water soluble nitrate - automated colour
9B1	Bicarbonate-extractable phosphorus - manual colour
P10_CF_C	Clay (%) - Coventry and Fett pipette method

P10_CF_Z Silt (%) - Coventry and Fett pipette method