Project Name: Project Code: Agency Name:	EDGEROI Site ID:	bil Studies in the Lower Namoi Valley DGEROI Site ID: ed205 Observation ID: 1 SIRO Division of Soils (QLD)							
Site Informatic Desc. By: Date Desc.: Map Ref.: Northing/Long.: Easting/Lat.: Geology	W.T. Ward 05/02/86 Sheet No. : 8837_N 1:50000	Locality: Elevation: Rainfall: Runoff: Drainage:	Forestry Commis 290 metres No Data No Data No Data No Data	sion of NSW, Killarney State Forest					
ExposureType: Geol. Ref.:	Undisturbed soil core No Data	Conf. Sub. is Pare Substrate Materia							
Land Form Rel/Slope Class: Morph. Type: Elem. Type: Slope: Surface Soil C Erosion: Soil Classified	No Data Hillcrest 2 % ondition (dry): Surface crust	Pattern Type: Relief: Slope Category: Aspect:	No Data No Data Gently inclined 170 degrees						
Soil Classifica									
Australian Soil C	Classification:		ing Unit: ipal Profile Form:	N/A Dr5.12					
N/A ASC Confidence	e.		Soil Group:	Solodic soil					
Confidence level		Creat	con croup.						
	ce: Complete clearing. Pasture,	native or improved, cul	tivated at some stag	ge					
Vegetation:									
Surface Coars	<u>e Fragments:</u>								
Profile Morpho	ology								
A11 0-0.1 n	grain grade of structure,	<2 mm; Few (<1 per 10	00mm2) Very fine (0	Dry); ; Loamy sand; Single 0.075-1mm) macropores, few, very fine (0-1mm) roots;					
A12 0.1 - 0.2	Sandy (grains prominent Moderately moist; Very w	Dark reddish brown (5YR3/3-Moist); ; Loamy sand; Single grain grade of structure, <2 mm; Sandy (grains prominent) fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very weak consistence; 2-10%, cobbly, 60-200mm, angular platy, Ironstone, coarse fragments; Field pH 5.5 (pH meter); Few, very fine (0-1mm) roots; Abrupt, Wavy change							
B21 0.2 - 0.3	Sandy (grains prominent	Red (2.5YR4/6-Moist); ; Medium clay; Weak grade of structure, 20-50 mm, Subangular blocky; Sandy (grains prominent) fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Firm consistence; Field pH 5.5 (pH meter); Clear, Wavy change to -							
B22 0.37 - 0.	Distinct; Medium clay; W	eak grade of structure, 1 per 100mm2) Very fi	20-50 mm, Angulai ne (0.075-1mm) ma	[·] blocky; Earthy fabric; Fine, cropores, Moderately moist;					
B23 0.65 - 1.	5mm, Distinct; Clayey co fabric; Fine, (0 - 5) mm c	Strong brown (7.5YR5/8-Moist); , 10YR83, 20-50% , 0-5mm, Prominent; , 7.5YR46, 0-2% , 0- 5mm, Distinct; Clayey coarse sand; Massive grade of structure; Sandy (grains prominent) fabric; Fine, (0 - 5) mm crack; Moderately moist; Very firm consistence; Few cutans, <10% of ped faces or walls coated; Field pH 7 (pH meter);							
B24 1.3 - 2.3	15mm, Distinct; Clayey c fabric; Fine, (0 - 5) mm c	Strong brown (7.5YR5/6-Moist); , 2.5Y62, 20-50% , 30-mm, Prominent; , 2.5YR44, 0-2% , 5- 15mm, Distinct; Clayey coarse sand; Massive grade of structure; Sandy (grains prominent) fabric; Fine, (0 - 5) mm crack; Moderately moist; Strong consistence; Field pH 8.5 (pH meter); Few, medium (2-5mm) roots; Clear, Smooth change to -							
Morphological	Notes								
A11	Sand infilling crack in 50- (yellow and very pale brow continued to 234, but rock	wn). Root mat on harde	er sandstone at 130						
Observation N	<u>otes</u> vial sediment, sandstone – Pillida								

Parent Rock: alluvial sediment, sandstone, Pilliga Sandstone Site Notes

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Target 205 is inaccessible due to dense bush, so site is positioned as near as possible on the same physiographic unit, i.e. a hill crest. Stone line (ants?) at 25cm. Stones are flags of ferruginous sandstone. No tensile test sample taken,

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Agency Name:	CSIRO Divisio	n of Soils (C	QLD)	

Laboratory Test Results:

Depth	рН	1:5 EC		changeable			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na Cmol	Acidity (+)/kg			%
0 - 0.02	4.95A	0.027A	0.35B	0.18	0.26	0.01				
0 - 0.1	4.51A	0.102A	0.1B	0.38	0.23	0.04				
0.1 - 0.2	4.4A	0.063A	<0.1B	0.1	0.14	0.02				
0.3 - 0.4	5.27A	0.018A	<0.1B	0.95	0.09	0.03				
0.5 - 0.6	5.83A	0.033A	<0.1B	6.29	0.18	0.67				
0.7 - 0.8	6A	0.036A	<0.1B	3.29	0.06	0.38				
1.2 - 1.3	8.19A	0.233A	<0.1B	16.7	0.37	2.83				

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Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	P	article	Size	Analysis	5
		С	Р	Р	N	ĸ	Density	GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.02	<0.1B	4.27C									4.6	12.1
0 - 0.1	<0.1B	3.33C	4.1J								4.2	14.2
0.1 - 0.2	<0.1B	2.01C	1.1J								5	14.7
0.3 - 0.4	<0.1B	0.51C	<1J								7.4	30.6
0.5 - 0.6	<0.1B	0.42C	<1J								6	54.2
0.7 - 0.8	<0.1B	0.14C	<1J								10.7	24.4
1.2 - 1.3	<0.1B	0.22C	7J								12.9	20.6

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

0 - 0.02 0 - 0.1 0.1 - 0.2 0.3 - 0.4 0.5 - 0.6 0.7 - 0.8 1.2 - 1.3

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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
- Total organic carbon high frequency induction furnace, infrared Water soluble nitrate automated colour 6B3
- 7B1
- Bicarbonate-extractable phosphorus manual colour 9B1
- P10_CF_C P10_CF_Z Clay (%) - Coventry and Fett pipette method Silt (%) - Coventry and Fett pipette method