Projec	t Name: t Code: y Name:	WF	arren Reservoir Catchme RN Site ID: IRO Division of Soils (S/	053	0	bservatio	on ID:	1
Site In	formatio	n						
Easting	esc.: ef.: ng/Long.: ŋ/Lat.:	28/11 1:100 6158		Locality: Elevation: Rainfall: Runoff: Drainage:		421 metr No Data Slow Poorly dr		
<u>Geolog</u> Exposu Geol. R	ireType:	Undi: No D	sturbed soil core Conf. Sub. is P Data Substrate Mate				No Dat Undistu Schist	a urbed soil core, 2 m deep,Porous,
	Land Form Rel/Slope Class: Gen 1-3%		tly undulating rises 9-30m	Pattern Ty	pe:	Rises		
Morph. Elem. T Slope:			depression (vale) Relief: age depression Slope Categ Aspect:			No Data ry: Gently inclined 140 degrees		
<u>Surfac</u>	e Soil Co	onditi	on (dry): Firm					
<u>Erosio</u> Soil Cl	o <u>n:</u> lassificati	<u>ion</u>						
Chrom	onfidence	:		Prin		oping Unit: ncipal Profile Form: eat Soil Group:		N/A Dy5.41 Lateritic podzolic
	ence level i isturbanc	•	ecified omplete clearing. Pasture, nat	ivo or improv	und cult	ivated at c	omo stao	soil
Vegeta			omplete cleaning. r asture, nat	•	-			
109010			all Strata - Tree, 12.01-20m, N		•			
<u>Surfac</u>	e Coarse		ments: No surface coarse					
Profile	Morphol	logy						
0	0 - 0.01 r	n	Organic Layer; , 0-0% ; Sing 100mm2) Very fine (0.075-1 sticky; Field pH 5.5 (Raupad	Imm) macrop	pores, D	ry; Very we	ak cons	istence; Non-plastic; Non-
A2	0.01 - 0.1	l m	Very dark greyish brown (10 sand; Massive grade of stru sticky; 2-10%, fine gravelly, 5.5 (Raupach); Many, very	cture; Moder 2-6mm, rour	rately m nded, di	oist; Loose spersed, Iro	consiste	ence; Non-plastic; Non- coarse fragments; Field pH
A21	0.1 - 0.2	m	Brown (10YR5/3-Moist); Lig Loamy sand; Weak grade o 50%, fine gravelly, 2-6mm, (Raupach); Common, very f	f structure; N rounded, stra	Aoist; Lo atified, Ir	ose consis onstone, c	tence; N oarse fra	igments; Field pH 6.5
A22	0.2 - 0.3	m	Moderate grade of structure	e; Wet; Very f stratified, Iror	firm con nstone, d	sistence; N coarse frag	on-plasti	5 , 0-5mm, Faint; Loamy sand; ic; Non-sticky; 20-50%, fine ïeld pH 6.5 (Raupach); Many,
Bt	0.3 - 0.4	m	Yellowish brown (10YR5/4- Distinct; , 5YR58; Medium o Normal plasticity; Moderate Abrupt, Smooth change to -	clay; Strong g ly sticky; Fiel	grade of	structure; \$	Strong co	
Bt	0.4 - 0.5	m	Yellowish brown (10YR5/6- medium clay; Very plastic; f fine (1-2mm) roots; Abrupt	Normal plasti	city; Mo	derately sti		stinct; , 2.5YR48; Light d pH 6 (Raupach); Common,
Bt	0.5 - 0.6	m	Yellowish brown (10YR5/6- medium clay; Single grain g plasticity; Moderately sticky Smooth change to -	rade of struc	ture; Ve	ery strong c	onsisten	ce; Very plastic; Normal

Project Name: Project Code: Agency Name:	Warren Reservoir Catchment Survey WRN Site ID: 053 Observation ID: 1 CSIRO Division of Soils (SA)
BC 0.6 - 0.8 m	Light grey (10YR7/2-Moist); , 10YR68, 2-10% , 15-30mm, Distinct; , 2.5YR36; Light clay; Single grain grade of structure; Loose consistence; Very plastic; Normal plasticity; Moderately sticky; Field pH 6 (Raupach); Few, fine (1-2mm) roots; Clear, Wavy change to -
Cr 0.8 - 1 m	White (10YR8/1-Moist); , 7.5YR58, 0-2% , 5-15mm, Prominent; Clay loam; Single grain grade of structure; Loose consistence; Moderately plastic; Normal plasticity; Slightly sticky; Field pH 6 (Raupach);
Cr 1 - 2 m	White (10YR8/1-Moist); , 7.5YR58, 0-2% , 5-15mm, Prominent; Clay loam; Moderately plastic; Normal plasticity; Slightly sticky; Field pH 6 (Raupach);
Morphological N	<u>otes</u>

# **Observation Notes**

Site Notes

A1415

Project Name:	Warren Reservo	ir Catchme	ent Survey		
Project Code:	WRN	Site ID:	053	Observation ID:	1
Agency Name:	CSIRO Division	of Soils (S	A)		

## Laboratory Test Results:

Depth	рН	1:5 EC	Exo Ca	changeabl Mg	e Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Ca	wig	ĸ	Cmol				%
0 - 0.01										
0.01 - 0.1	4.8C 4.9A	0.14A	1.14D	0.91	0.16	0.34		2.9K	2.6D	11.72
0.1 - 0.2	4.9C 5.1A	0.08A	0.64D	0.63	0.06	0.23		2.2K	1.6D	10.45
0.2 - 0.3	4.9C 5.1A	0.09A	0.67D	0.81	0.12	0.25		2.5K	1.9D	10.00
0.3 - 0.4	5C 5.1A	0.48A	4.2D	6.96	0.28	1.5	0.08A	12.9K	13D	11.63
0.4 - 0.6	5.4C 5.2A	0.91A	3.38D	7.47	0.39	1.67	0.01A	13.4K	12.9D	12.46
0.5 - 1	4.7C 4.8A	1.34A	1.8D	5.67	0.07	2.23	0.11A	9.5K	9.8D	23.47
1 - 2	4.8A 4.1C 4.3A	1.57A	1.6D	5.32	0.07	2.66	0.07A	8.9K	9.7D	29.89

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	P GV	article CS	Size FS	Analysi: Silt	s Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		,
0 - 0.01		9C			0.157	D						
0.01 - 0.1		0.8C	5E		0.025				44B	45	5	6
0.1 - 0.2		0.3C	4E		0.013	D			55B	34	5	5
0.2 - 0.3		0.3C	4E						60B	28	5	7
0.3 - 0.4		0.9C			0D				10B	6	5	78
0.4 - 0.6		0.5C	0D					3B	6	7	85	
0.5 - 1		0.1C	0D					15B	12	10	62	
1 - 2		0C			0D				13B	12	19	56
Depth	COLE		Grav	imetric/Vo	olumetric Wa	ater Conte	ents		Ks	at	K unsa	t
		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 - 0.01												
0-0.01												

0 - 0.01 0.01 - 0.1 0.1 - 0.2 0.2 - 0.3 0.3 - 0.4 0.4 - 0.6 0.5 - 1 1 - 2

# Project Name:Warren Reservoir Catchment SurveyProject Code:WRNSite ID:053Agency Name:CSIRO Division of Soils (SA)

#### Observation ID: 1

### Laboratory Analyses Completed for this profile

15B2_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15B2_K 15B2_MG 15B2_NA 15G1	Exchangeable bases and CEC - 1M ammonium chloride at pH 7.0, pretreatment for soluble salts Exchangeable bases and CEC - 1M ammonium chloride at pH 7.0, pretreatment for soluble salts Exchangeable bases and CEC - 1M ammonium chloride at pH 7.0, pretreatment for soluble salts Exchange acidity (hydrogen and aluminium) by 1M potassium chloride
1513	CEC measurement - automated determination of ammonium and chloride ions
15J_BASES	Sum of Bases
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
4B2	pH of 1:5 soil/0.01M calcium chloride extract - following Method 4A1
5A2	Chloride - 1:5 soil/water extract, automated colour
6B3	Total organic carbon - high frequency induction furnace, infrared
7A5	Total nitrogen - high frequency induction furnace, thermal conductivity
9B2	Bicarbonate-extractable phosphorus - automated colour
P10A1_C	Clay (%) - Pipette
P10A1_CS	Coarse sand (%) - Pipette
P10A1_FS	Fine sand (%) - Pipette
P10A1_Z	Silt (%) - Pipette