•	cy Name:			n of Soils (C	~==)			
Desc. Date D Map R Northi Eastin Geolo	Desc.: Ref.: ing/Long.: ng/Lat.: Dgy	G.D. I 01/09, Sheet 144.6 -26.86	No. : 7844 75 3388888888888	1:100000 9	Locality: Elevation: Rainfall: Runoff: Drainage:	210 met 400 Moderate Imperfect	ly rapid ly draine	
Expos Geol. I	sureType: Ref.:	Augei Kw	r boring		Conf. Sub. is Pare Substrate Materia		No Data Auger b	a poring, No Data
Rel/Slo Morph Elem. Slope:	<u>ce Soil Co</u>	No Da No Da Plain 0 % nditic	ata	lardsetting	Pattern Type: Relief: Slope Category: Aspect:	Plain No Data No Data No Data		
Austra	Classificati alian Soil Cl Mesotrophic	assific			••	ng Unit: pal Profile	Form:	N/A Gn2.11
Site D			•	sonable confic	lence.			
	tation:	Lo	w Strata - Tu	ssock grass, ,	than grazing by hoofe . *Species includes - I Species includes - Aca	None record	ded	
Surfa	ce Coarse	Lo Ta <b>Frag</b>	w Strata - Tu Il Strata - Tre	ssock grass, , e, , Sparse. *S	. *Species includes - I	None recoro cia aneura	ded	
Surfa		Lo Ta <b>Frag</b>	w Strata - Tu Il Strata - Tre <b>ments:</b> 2-1 Red (2.5YR	ssock grass, , ee, , Sparse. *S 0%, fine grave 4/5-Moist); ; Lo	. *Species includes - I Species includes - Aca Ily, 2-6mm, , Substrate	None record cia aneura e material f structure;	Dry; Wea	ak consistence; 2-10%, fin ange to -
Surfa Profile	ce Coarse e Morphol	Lo Ta Fragi	w Strata - Tu II Strata - Tre ments: 2-1 Red (2.5YR gravelly, 2-6 Red (2.5YR	ssock grass, , ee, , Sparse. *S 0%, fine gravel 4/5-Moist); ; Lo 6mm, Substrate 5/6-Dry); ; Clay	. *Species includes - M Species includes - Aca Ily, 2-6mm, , Substrate Dam; Massive grade o e material, coarse frag	None record cia aneura e material f structure; ments; Gra e of structur	Dry; Wea adual cha re; Earthy	ange to - y fabric; Firm consistence;
Surfa Profile	<u>ce Coarse</u> <u>e Morphol</u> 0 - 0.1 m	Lo Ta <b>Frag</b> i Dgy	w Strata - Tu II Strata - Tre ments: 2-1 Red (2.5YR gravelly, 2-6 Red (2.5YR 2-10%, fine Red (2.5YR	ssock grass, , ee, , Sparse. *S 0%, fine gravel 4/5-Moist); ; Lo 5/6-Dry); ; Clay gravelly, 2-6m 5/6-Dry); ; Clay	. *Species includes - I Species includes - Aca Ily, 2-6mm, , Substrate pam; Massive grade o e material, coarse frag y Ioam; Massive grade m, Substrate material y Ioam; Massive grade	None record cia aneura e material f structure; ments; Gra e of structur coarse fra e of structur	Dry; Wea adual cha re; Earthy gments; re; Earthy	ange to - y fabric; Firm consistence;
Surfa Profile	<u>ce Coarse</u> <u>e Morphol</u> 0 - 0.1 m 0.1 - 0.2 r	Lo Ta Fragi Dgy	w Strata - Tu II Strata - Tre ments: 2-1 Red (2.5YR gravelly, 2-6 Red (2.5YR 2-10%, fine Red (2.5YR 10-20%, fine Red (2.5YR	ssock grass, , e, , Sparse. *S 0%, fine gravel 4/5-Moist); ; Lo 5/6-Dry); ; Clay gravelly, 2-6m 5/6-Dry); ; Clay e gravelly, 2-6r 5/6-Dry); ; Clay	. *Species includes - M Species includes - Aca Ily, 2-6mm, , Substrate oam; Massive grade o e material, coarse frag y Ioam; Massive grade m, Substrate material y Ioam; Massive grade mm, Substrate materia	None record cia aneura e material f structure; ments; Gra e of structur , coarse fra e of structur al, coarse fr e of structur	Dry; Wea adual cha e; Earthy gments; e; Earthy agments re; Earthy	ange to - y fabric; Firm consistence; Gradual change to - y fabric; Firm consistence;
Surfa Profile	<u>ce Coarse</u> <u>e Morphole</u> 0 - 0.1 m 0.1 - 0.2 r 0.2 - 0.3 r	Lo Ta Frage Dgy n n m	w Strata - Tu II Strata - Tre ments: 2-1 Red (2.5YR gravelly, 2-6 Red (2.5YR 2-10%, fine Red (2.5YR 10-20%, fine Red (2.5YR 20-50%, me Red (2.5YR	ssock grass, , ee, , Sparse. *S 0%, fine gravel 4/5-Moist); ; Lo 5/6-Dry); ; Clay gravelly, 2-6m 5/6-Dry); ; Clay e gravelly, 2-6r 5/6-Dry); ; Clay edium gravelly, 5/6-Dry); ; Clay	. *Species includes - I Species includes - Aca Ily, 2-6mm, , Substrate pam; Massive grade o e material, coarse frag y Ioam; Massive grade m, Substrate material y Ioam; Massive grade nm, Substrate materia y Ioam; Massive grade 6-20mm, Substrate m	None record cia aneura e material f structure; ments; Gra e of structur , coarse fra e of structur al, coarse fr e of structur haterial, coa	Dry; Wea adual cha re; Earthy gments; re; Earthy agments re; Earthy arse fragr re; Earthy	ange to - y fabric; Firm consistence; Gradual change to - y fabric; Firm consistence; ;; Gradual change to - y fabric; Firm consistence;
Surfa Profile	<u>ce Coarse</u> <u>e Morphol</u> 0 - 0.1 m 0.1 - 0.2 r 0.2 - 0.3 r 0.3 - 0.45	Lo Ta Fragu Dgy n n m m	w Strata - Tu II Strata - Tre <b>ments:</b> 2-1 Red (2.5YR gravelly, 2-6 Red (2.5YR 2-10%, fine Red (2.5YR 10-20%, fine Red (2.5YR 20-50%, me Red (2.5YR 50-90%, me Reddish yel Prominent;	ssock grass, , ee, , Sparse. *S 0%, fine gravel 4/5-Moist); ; Lo 5/6-Dry); ; Clay gravelly, 2-6m 5/6-Dry); ; Clay e gravelly, 2-6r 5/6-Dry); ; Clay dium gravelly, 5/6-Dry); ; Clay edium gravelly, source (SYR6/6-D Light clay; Mas	. *Species includes - I species includes - Aca lly, 2-6mm, , Substrate pam; Massive grade o e material, coarse frag y loam; Massive grade m, Substrate material y loam; Massive grade nm, Substrate materia y loam; Massive grade 6-20mm, Substrate m y loam; Massive grade 6-20mm, Substrate m y loam; Massive grade 6-20mm, Substrate m	None record cia aneura e material f structure; ments; Gra e of structur , coarse fra e of structur al, coarse fr e of structur aterial, coa e of structur aterial, coa 6 of structur aterial, coa	Dry; Wea dual cha e; Earthy gments; e; Earthy arse fragn e; Earthy arse fragn Promine sistence;	ange to - y fabric; Firm consistence; Gradual change to - y fabric; Firm consistence; ;; Gradual change to - y fabric; Firm consistence; ments; Gradual change to y fabric; Firm consistence; ments; Gradual change to nt; , 20-50% , 0-5mm, ; 50-90%, medium gravelly
Surfa Profile	<u>ce Coarse</u> <u>e Morphol</u> 0 - 0.1 m 0.1 - 0.2 r 0.2 - 0.3 r 0.3 - 0.45 0.45 - 0.6	Lo Ta Fragu ogy n m m m	w Strata - Tu II Strata - Tre <b>ments:</b> 2-1 Red (2.5YR gravelly, 2-6 Red (2.5YR 2-10%, fine Red (2.5YR 10-20%, fine Red (2.5YR 20-50%, me Red (2.5YR 50-90%, me Reddish yel Prominent; 6-20mm, Su Dark brown	ssock grass, , ee, , Sparse. *S 0%, fine gravel 4/5-Moist); ; Lo 5/6-Dry); ; Clay gravelly, 2-6m 5/6-Dry); ; Clay e gravelly, 2-6r 5/6-Dry); ; Clay edium gravelly, 5/6-Dry); ; Clay edium gravelly, 10w (5YR6/6-D Light clay; Mas ubstrate materia (10YR3/3-Dry)	. *Species includes - M Species includes - Aca Ily, 2-6mm, , Substrate Dam; Massive grade o e material, coarse frag y Ioam; Massive grade m, Substrate material y Ioam; Massive grade 6-20mm, Substrate materia y Ioam; Massive grade 6-20mm, Substrate m for y; 10YR72, 20-509 ssive grade of structur al, coarse fragments; ); ; Light clay; Massive	None record cia aneura e material f structure; ments; Gra e of structur , coarse fra e of structur al, coarse fr e of structur haterial, coa e of structur haterial, coa	Dry; Wea adual cha re; Earthy gments; re; Earthy agments re; Earthy arse fragn Promine sistence; ange to - tructure;	ange to - y fabric; Firm consistence; Gradual change to - y fabric; Firm consistence; ;; Gradual change to - y fabric; Firm consistence; ments; Gradual change to y fabric; Firm consistence; ments; Gradual change to nt; , 20-50% , 0-5mm, ; 50-90%, medium gravelly
Surfa Profile	<u>ce Coarse</u> <u>e Morpholi</u> 0 - 0.1 m 0.1 - 0.2 r 0.2 - 0.3 r 0.3 - 0.45 0.45 - 0.6 0.6 - 0.72	Lo Ta Frage Dgy n m m m m	w Strata - Tu II Strata - Tre <b>ments:</b> 2-1 Red (2.5YR gravelly, 2-6 Red (2.5YR 2-10%, fine Red (2.5YR 10-20%, fine Red (2.5YR 20-50%, me Red (2.5YR 50-90%, me Red (2.5YR 50-90%, me Reddish yel Prominent; 6-20mm, Su Dark brown medium gr Light red (2 Prominent; 20mm, Sub	ssock grass, , ee, , Sparse. *S 0%, fine gravel 4/5-Moist); ; Lo 5/6-Dry); ; Clay gravelly, 2-6m 5/6-Dry); ; Clay e gravelly, 2-6r 5/6-Dry); ; Clay edium gravelly, 5/6-Dry); ; Clay edium gravelly, 10w (5YR6/6-D Light clay; Mas ibstrate material, (10YR3/3-Dry); avelly, 6-20mm 5YR6/6-Dry); ; Massive grade strate material,	. *Species includes - I species includes - Aca lly, 2-6mm, , Substrate pam; Massive grade o e material, coarse frag y loam; Massive grade m, Substrate material y loam; Massive grade 6-20mm, Substrate m 6-20mm, Substrate m 6-20mm, Substrate m ( loam; Massive grade 6-20mm, Substrate m ( substrate material y loam; Massive grade 6-20mm, Substrate m ( substrate material ); , 10YR72, 20-50% ( sive grade of structur al, coarse fragments; ); ; Light clay; Massive n, Substrate material, , 10YR64, 20-50% , 5- of structure; Very stro	None record cia aneura e material f structure; ments; Gra e of structur a of structur a of structur a terial, coarse fra e of structur a terial, coarse f of structur a terial, coarse f of structur a terial, coarse f structur a terial terial, coarse f structur a terial terial terial f structur a terial	Dry; Wea dual cha e; Earthy gments; e; Earthy agments e; Earthy arse fragr e; Earthy arse fragr Promine sistence: ange to - tructure; ments; C pminent; 20	ange to - y fabric; Firm consistence; Gradual change to - y fabric; Firm consistence; ; Gradual change to - y fabric; Firm consistence; ments; Gradual change to y fabric; Firm consistence; ments; Gradual change to nt; , 20-50% , 0-5mm, ; 50-90%, medium gravelly Firm consistence; 20-50% Other pans; Clear change to

Site Notes

Project Name: WQA Project Code: WQA Site ID: B636 Agency Name: CSIRO Division of Soils (QLD)

Observation ID: 1

Project Name:	WQA				
Project Code:	WQA	Site ID:	B636	Observation ID:	1
Agency Name:	<b>CSIRO</b> Division	of Soils (Q	LD)		

## Laboratory Test Results:

Depth	рН	1:5 EC	Ex Ca	changeable Mg	e Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Ja	ing	ĸ	Cmol				%
0 - 0.1	4.8H	0.03B	1.3K	0.81	0.91	0.13	7.8D			
0.1 - 0.2	4.4H	0.12B								
0.2 - 0.3	4.2H	0.17B								
0.3 - 0.45	4.5H	0.16B								
0.45 - 0.6	4.8H	0.12B								
0.6 - 0.72	5.2H	0.08B								
0.72 - 0.8	5.9H	0.14B								
0.8 - 0.9	6.3H	0.15B								
0.9 - 1	6.4H	0.11B	18.7K	6	0.57	3.4	0D			

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Pa GV	article CS	Size / FS	Analysis Silt	s Clay
m	%	%	mg/kg	%	%	%	Mg/m3	0,	00	%	Sint	Ciay
0 - 0.1 0.1 - 0.2 0.2 - 0.3		0.42A 0.32A 0.26A	13B	0.028F	0.042B 0.045B 0.042B	0.38B			22C	36	12	30
0.2 - 0.3 0.3 - 0.45 0.45 - 0.6		0.23A 0.23A		0.023F	0.042B 0.044B	0.42B			18C	35	9	35
0.6 - 0.72 0.72 - 0.8		0.12A 0.12A		0.02F	0.026B	0.32B			25C 20C	38 28	11 11	24 40
0.8 - 0.9 0.9 - 1		0.07A		0.014F	0.019B	0.4B			53C	31	9	6
Depth	COLE			netric/Volur			-		K sa	at	K unsa	t
m		Sat.	0.05 Bar		.5 Bar 1 m3/m3	Bar 5	5 Bar 15 I	Bar	mm/	′h	mm/h	

 $\begin{array}{c} 0 - 0.1 \\ 0.1 - 0.2 \\ 0.2 - 0.3 \\ 0.3 - 0.45 \\ 0.45 - 0.6 \\ 0.6 - 0.72 \\ 0.72 - 0.8 \\ 0.8 - 0.9 \\ 0.9 - 1 \end{array}$ 

Project Name:	WQA		
Project Code:	WQA	Site ID:	B636
Agency Name:		ision of Soils (C	
Agency Nume.			

## Observation ID: 1

## Laboratory Analyses Completed for this profile

10A_NR	Total element - S(%) - Not recorded
15_NR_CA	Exch. basic cations (Ca++) - meg per 100g of soil - Not recorded
15_NR_H	Hydrogen Cation - meg 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
17A_NR	Total element - K(%) - Not recorded
2_LOI	Loss on Ignition (%)
2A1	Air-dry moisture content
3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - Not recorded
5_NR	Water soluble Chloride - Cl(%) - Not recordede
6A1	Organic carbon - Walkley and Black
7_NR	Total nitrogen (%) - Not recorded
9A_NR	Total element - P(%) - Not recorded
9G_BSES	Available P (mg/kg) - Acid P - 0.005M H2SO4 (BSES)
P10_NR_C	Clay (%) - Not recorded
P10_NR_CS	Coarse sand (%) - Not recorded
P10_NR_FS	Fine sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded