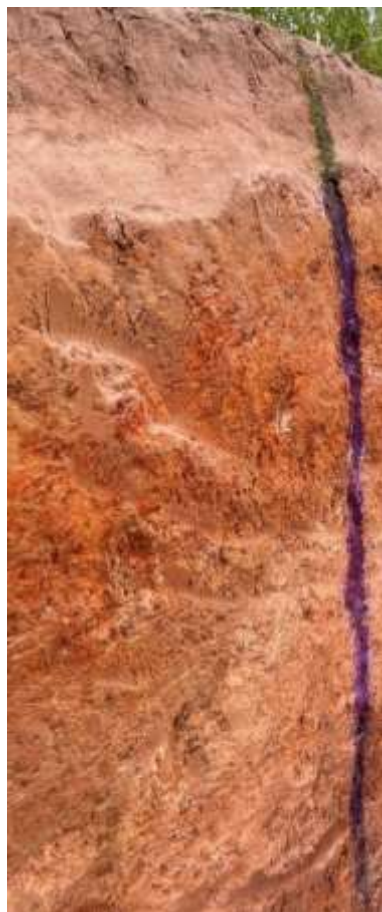
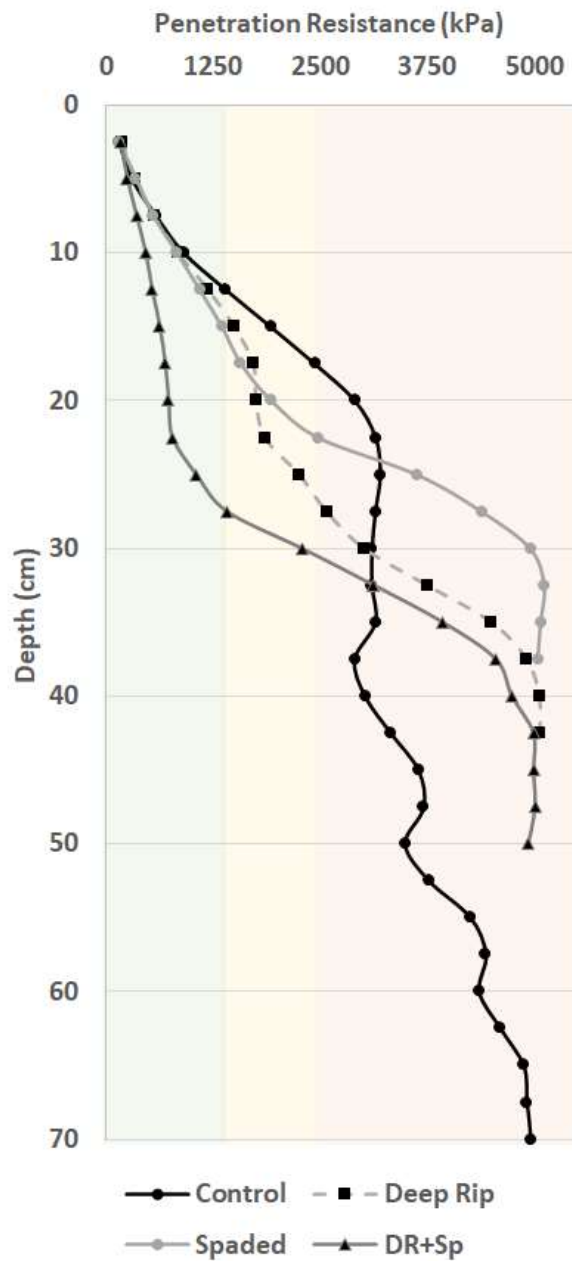


## SUMMARY DATA – PINNAROO PIT



Depth cm	pH <sub>Ca</sub>	Avg PR	MinN (mg/kg)	MinN (kg/ha)	ColP	PBI	DGT P	Ex.K	S	B	Clay%	OC%	CEC	Ex. Na %	EC <sub>1:5</sub>
0-10	4.94	488	1.3	2	22	12	316	35	<2.5	0.23	7	0.59	1.82	2.2	0.02
10-15	4.95	1658	<1	1	22	12	347	38	<2.5	0.14	8	0.26	1.54	3.3	0.02
15-25	5.88	2915	4	5	8	4	211	23	<2.5	0.13	7	0.19	0.92	11.5	0.03
23-35	7.07	3117	5.1	9	5	40	24	279	2.5	2.40	19	0.18	12.2	15.1	0.11
35-55	8.48 (9.29)	3507	3.9	12	<5	71	5	379	4.8	8.20	21	0.13	18.3	15.8	0.25
55-75	8.74 (9.48)	4753	4.6	14	<5	92	<4	532	11	18.0	32	0.12	36.7	14.4	0.44
75-100	8.6 (9.59)		3.2	12	<5	260	<4	394	17	14.0	27	0.18	39.1	13.5	0.53
100-120	8.6 (9.62)		2.4	17 =72	<5	114	<4	417	17	15.0	33	0.13	39.2	15.4	0.53

- Repellence - Mild, despite >5% clay in surface (MED = 0.5 in top 10cm)
- pH extremes - Severely acidic to 15cm and severely alkaline at depth; Ex AI = 3% in 10-15 layer
- Soil strength - Bleached A2 is compacted: PR>2,500 and remains >2500 to depth
- Moderate OC for a sands,
- Nutrients - Sufficient P and luxury Zn (1.1)
- Nutrients - Marginal K
- Nutrients - Deficient in S and Cu (0.14) and very low in Min N
- Subsoil hostilities - severely alkaline, severe soil strength, high PBI, toxic boron, sodic and saline – key message: leave where it is! Ex. Mg ranges 30-55% throughout



- PR collected for Control as 4 groups of 5 inserts around the pit (20 inserts).
  - Avg Control – PR >1,500 kPa at 12.5cm
  - Avg Control – PR >2,500 kPa at 17.5 cm
- PR collected in treatment plots – 15 readings in a straight transect E-W across plots at 10cm intervals:
  - Deep Ripped – PR >2,500 kPa at 27.5 cm
  - Spaded PR >2,500 kPa at 22.5cm
  - Deep Ripped + Spaded - PR >2,500 kPa at 30cm
- PR maxed out >5,000 at 37.5cm in the spaded plot, 42.5cm in deep ripped plot and 50cm in the deep ripped+spaded plot.

Water repellence and pH were measured from a composite of 20 samples collected at random around the pit and in a treatment plot that had lime surface applied and not incorporated (visible still). Results show substantial increase in pH to 20 cm (where clay was intercepted).



	Control		Lime applied	
	MED	pH	MED	pH
0-5 cm	0.5	5.6	0	7.1
5-10 cm	0.5	5.1	0	6.2
10-15 cm	0	5.2	0	6.1
15-20 cm	0	5.5	0	6.2
20-25 cm	0	6.0		
25-30 cm	0	6.5		