Summary data – Paruna Pit

Depth cm	pH$_{Ca}$	Avg PR	MinN mg/kg	MinN kg/ha	ColP	PBI	DGT P	Ex.K	S	B	Clay%	OC%	CEC	Ex Na %	EC$_{1:5}$
0-10	5.2	527	8.7	13	26	10	182	78	2.5	0.17	7.5	0.67	2.33	0.4	0.037
10-20	5.0	2009	2.3	3	12	9	44	61	<2.5	0.13	6.3	0.23	1.76	0.4	0.022
20-40	5.9	3779	1.3	4	<5	7	7	53	<2.5	0.13	6.7	0.19	1.49	0.5	0.022
40-60	6.3	3088	1.9	6	<5	5	<4	49	<2.5	0.16	6.0	0.13	1.67	0.5	0.027
60-90	7.6	2954	1.6	7	<5	30	<4	134	3	0.78	12.6	0.12	9.1	1.4	0.12
90-120	7.9	-	2	9 = 41	<5	49	<4	143	3.2	2.2	14.4	0.1	18.4	1.9	0.13

- Repellence – mild to moderate in top 10, not repellent below 10
- pH – moderately acidic through the top 40 cm, moderately alkaline below 60 cm
- Severe strength below 18 cm on non-ripped wheel tracks -
- OC – moderate for soil type
- Nutrients - Sufficient P, K, Zn
- Nutrients - Marginal S
- Nutrients – Deficient Cu
- Nutrients - Subsoil hostilities – just alkalinity

PR kPa

Wheel tracks · On Rip · Off Rip
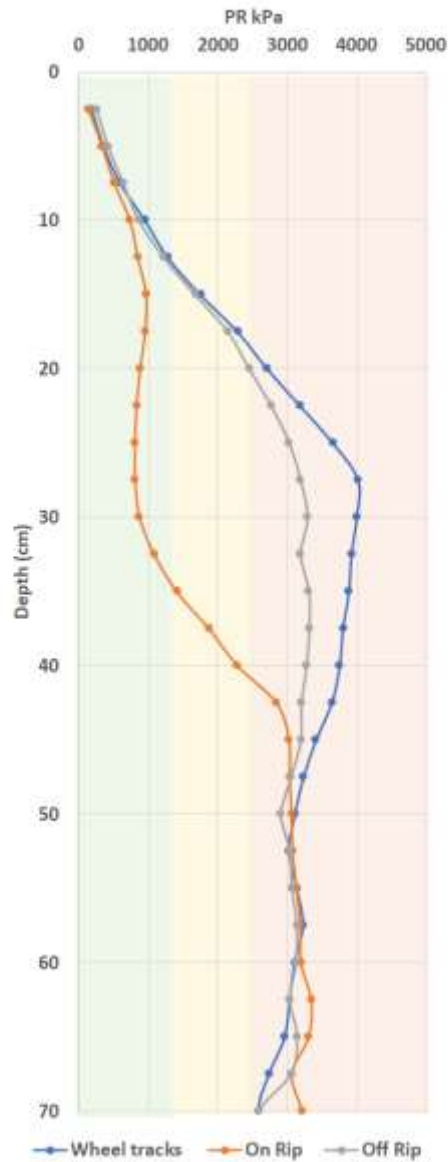
- PR collected by Mel across a N/S transect 6m long. Between wheel tracks (ripped)/on wheel tracks (not ripped - control)/off wheel tracks (ripped)
  - Ripping conducted January 2017 E/W on 500mm spacings?
- Wheel tracks:
  - >1500 kPa at 10cm
  - >2500 kPa at 18 cm, extending to 43 cm
- On Rip line
  - >1500 at 17 cm
  - >2500 at 25 cm and remains >2500 throughout
- Off Rip line
  - >1500 at 17 cm
  - >2500 at 25 cm and remains >2500 throughout

NB. Paddock was deep ripped E/W in January 2017. The wheel tracks were not ripped.

Water repellence and pH were measured from a composite of 20 samples collected in N/S transect in the same positions as PR on the East side of the pit.

	Control	
	MED	pH
0-5 cm	1.0	5.5
5-10 cm	1.5	5.3
10-15 cm	0	5.16
15-20 cm	0	5.07
20-25 cm	0	5.61
25-30 cm	0	5.91