

## Curve Details: Coonamia to Spencer Junction

Jul-15

Note

- [1] Rated speed at ARTC Normal Limits (80mm cant deficiency and 55mm/sec rate of change of cant and cant deficiency with cog 2500mm above rail level, and twist fault of 5mm in 14m transition)  
 [2] Cant deficiencies in mm shown where they are 75mm or more for existing curve speeds

Note in comments

TRC Curve data from track recordings



Curve		Hand	Radius m	Cant mm	Transition		Exist posted Speed	Cant def (2)	Rated Speed (1)	Location	Comments
Start	End				Up	Dn					
0.000										Coonamia	
2.040							35 for down trains			T/o at end of double track	
2.390										T/o to Port Pirie	T/o on main line
2.415	2.990	R	300	30	?	?	35		50		t/out leg of triangle
3.025										T/o to Port Pirie	
6.260	6.920	L	1600	30	60	60	100		120		
7.520	8.130	L	1200	50	60	60	100		115		
14.650	15.370	L	2000	10	60	60	100		125		
24.746										Pt Germein up t/o	
26.433										Pt Germein up t/o	
26.470	26.820	R	2000	10	60	60	100		125		
30.160	30.640	R	1200	50	60	60	100		115		
43.929										Mambray Ck up t/o	
44.800	45.520	L	1200	50	60	60	100		115		
45.587										Mambray Ck up t/o	
48.560	48.940	R	1200	50	60	60	100		115		
51.100	51.640	R	1200	50	60	60	100		115		
52.240	52.910	L	1200	50	60	60	100		115		
54.600	55.180	R	1200	50	60	60	100		115		
55.240	55.840	L	1200	50	60	60	100		115		
56.250	57.030	R	1200	50	60	60	100		115		
57.250	57.840	L	1200	50	60	60	100		115		
58.540	59.120	R	1200	50	60	60	100		115		
60.030	60.370	L	1200	50	60	60	100		115		
60.970	61.360	L	1200	50	60	60	100		115		
68.580	68.980	L	1200	50	60	60	100		115		

Curve		Hand	Radius m	Cant mm	Transition		Exist posted Speed	Cant def (2)	Rated Speed (1)	Location	Comments
Start	End				Up	Dn					
70.440										Winnowie up t/o	
72.218										Winnowie dn t/o	
81.860	82.060	R	3200	0	60	60	100		130		
82.960	83.340	R	1200	0	70	100	70		90		TRC
84.739	85.355	L	400	60	60	60	60		69		
85.416										Stirling Nth t/o to Leigh Ck	
85.435										T/o to Playford power stn	
90.109	90.766	R	806	0	60	60	60		73		
91.107	91.323	L	2000	20	60	60	60		130		
91.337	91.581	R	375	40	30	30	60		62		
91.609	91.697	R	368	70	30	30	60		68		
92.119	92.465	R	402	70	60	60	60		72		
92.807	92.919	R	1200	15	15	15	60		70		
93.037	93.149	L	1000	30	30	30	60		70		
93.473	94.123	L	635	50	60	60	60		84		
94.849	94.903	R	8000	5	0	0	60		130		
94.909	94.963	L	8000	5	0	0	60		130		
94.968	95.046	L	1000	20	30	30	60		87		
95.082	95.160	R	1000	20	30	30	60		87		