

1 **S2 Table. Recommended Target Water Quality Range (TWQR) for the lower Wonderfonteinspruit.**

Variable	Unit	Domestic use	Irrigation	Livestock watering
pH		6.0 – 9.0	6.5 – 8.4	NA
EC	mS/m	0 – 70	0 – 40	NA
Nitrate (NO ₃ ⁻)	mg/L	0 – 6	0 – 5	0 – 100
Sulphate (SO ₄ ²⁻)	mg/L	0 – 200	NA	0 - 1 000
Chloride (Cl ⁻)	mg/L	0 – 100	0 – 1.0	0 – 1500 (a) 0 – 3000 (b)
As	ppm	0 – 0.01	0 – 0.1	0 – 1
Cd	ppm	0 – 5	0 – 10	0 – 10
Co	ppm	NA	0 – 0.05	0 – 1
Cr	ppm	0 – 0.05	0 – 0.1	0 – 1
Cu	ppm	0 – 1	0 - 0.2	0 - 0.5 (c) 0 - 1 (d) 0 - 5 (e)
Fe	ppm	0 – 0.1	0 – 5	0 – 10
Hg	ppm	0 - 0.001	NA	0 - 1.0
Mn	ppm	0 – 0.05	0 - 0.02	0 - 10
Ni	ppm	NA	0 - 0.20	0 - 1
Pb	ppm	0 – 0.01	0 - 0.2	0 - 0.1 (f) 0 - 0.5 (g)
Se	ppm	0 - 0.02	0 - 0.02	0 - 50
U	ppm	0 – 0.070	NA	NA
Zn	ppm	0 – 3	0 - 1	0 - 20

2 (a) Monogastrics & Poultry

- 3 (b) Other Livestock
- 4 (c) Sheep & pre-weaned calves
- 5 (d) Cattle
- 6 (e) Horses, pigs & poultry
- 7 (f) All other livestock
- 8 (g) Pigs