

Appendix B – Batter stabilisation techniques for 1:2 and 1:3 ratio slopes and associated costs, time until erosion protection and suitability for slope, adapted from NSW Roads and Maritime Services (2015).

Batter stabilisation technique	Indicative cost	Time until erosion protection	Suitability for slope	
			1:3	1:2
Drill/broadcast seeding	Low (~\$0.15-1.50/m ²)	Slow (relies on establishment of vegetation)	Likely to work	May work, if supplemented with other techniques.
Soil binder – bitumen emulsion	Low (~\$0.15-1.50/m ²)	Rapid (within 48 hours)	Likely to work	May work, if supplemented with other techniques.
Soil binder – tackifier	Low (~\$0.15-1.50/m ²)	Rapid (within 48 hours)	Likely to work	May work, if supplemented with other techniques.
Mulch/topsoil mixes	Low (~\$0.15-1.50/m ²)	Immediate (effective as soon as installation in complete.)	Likely to work	May work, if supplemented with other techniques.
Hydro-seeding	Low (~\$0.15-1.50/m ²)	Slow (relies on establishment of vegetation)	Likely to work	May work, if supplemented with other techniques.
Straw mulching	Moderate (~\$1.50-5/m ²)	Immediate (effective as soon as installation in complete.)	Likely to work	Likely to work
Hydro-mulching – standard	Low (~\$0.15-1.50/m ²)	Rapid (within 48 hours, but erosion protection will be enhanced with vegetation establishment.)	Likely to work	May work, if supplemented with other techniques.
Hydro-mulching – bonded fibre mix	Moderate (~\$1.50-5/m ²)	Rapid (within 48 hours, but erosion protection will be enhanced with vegetation establishment.)	Likely to work	Likely to work
Hydro-mulching – compost	Moderate (~\$1.50-5/m ²)	Rapid (within 48 hours, but erosion protection will be enhanced with vegetation establishment.)	Likely to work	Likely to work
Erosion control blanket – organic fibre	High (~\$5-10/m ²)	Immediate (effective as soon as installation in complete.)	Likely to work	Likely to work
Erosion control blanket – synthetic	Very high (~\$10-35/m ²)	Immediate (effective as soon as installation in complete.)	Likely to work	Likely to work
Cellular confinement systems	Very high (~\$10-35/m ²)	Immediate (effective as soon as installation in complete.)	Likely to work	Likely to work
Compost blanket	High (~\$5-10/m ²)	Rapid (within 48 hours, but erosion protection will be enhanced with vegetation establishment.)	Likely to work	Likely to work
Placed turf	High (~\$5-10/m ²)	Immediate (effective as soon as installation in complete.)	May work, if supplemented with other techniques.	Not likely to work.
2-D turf reinforcement mats	Very high (~\$10-35/m ²)	Slow (relies on establishment of vegetation)	Likely to work	May work, if supplemented with other techniques.
3-D reinforcement mats	Very high (~\$10-35/m ²)	Immediate (effective as soon as installation in complete.)	Likely to work	May work, if supplemented with other techniques.