

Vegetated buffer width	Potential PC1 contaminant reduction	Potential additional benefits
5 metres	Perennial ryegrass filter strip – removes large particulate sediment	<p>Some adsorbed particulate P removal</p> <p>Reduced bank erosion by stock</p> <p>If well-vegetated (with indigenous trees):</p> <p>Provides shade – temperature reduction in small streams</p> <p>Provides habitat - inputs of wood and leaves</p>
10 metres	<p>Effective removal of fine sediment (80-90%)</p> <p>>10 m improved particulate N and P removal</p> <p>10-13 m removal of dissolved nutrients 67% (N) and 55% (P)</p>	<p>Dissolved nutrient removal via infiltration - improved by root structure of vegetation (trees)</p> <p>Large trees on strip edges increase effective width for greater nutrient removal</p>
20 metres	<p>Removes 90% of sediment</p> <p>Removes sediment-bound nutrients (primarily P)</p> <p>10-30 m effective for dissolved N and P removal (excluding sub-surface N and P from groundwater or drainage flows to streams)</p>	<p>Self-sustaining indigenous vegetation with less need for weed control</p> <p>Shade and habitat provision depending on stream size and vegetation</p> <p>Provides for riparian fish spawning habitat</p>