

Onkaparinga, Clarendon Oval, Riffle 1

20 March 2012, channel choked with water parsnip, slight water trickles through vegetation



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5 June 2012, channel opening up laterally at primary riffle site, length of riffle constrained by chocking vegetation, water parsnip present still, quite strong flow



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29 August 2012, some removal of vegetation within middle of channel, riffle appears to be lengthening, quite strong flow



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24 October 2012, in channel vegetation making a come back with onset of warmer weather, quite strong flow still



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17 December 2012, in channel vegetation continuing to grow and encroach more on the channel with warmer weather, flow has slowed, riffle habitat still present, hard stony substrates observable



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25 March 2013, channel less choked with vegetation than in 2012, water parsnip not as dominant as same time last year, slight water trickles through vegetation and rocks, exposed rocky substrate available for immediate colonisation of riffle bugs with onset of flows



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Comparison March 2012 and 2013

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31 July 2013, bottom half of quite lengthy riffle is more stony and supportive of a mature riffle macroinvertebrate community, the new upper half exposed by the flow resembles the bottom half at the beginning of onset of flows in mid 2012, though flow still strong the lateral spread of the water and the reduced resistance of plant matter has this riffle being more like a riffle than a run habitat



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Each of the replicates that fell in the bottom stony end of the riffle supported mature Stoneflies (*Illiesoperla mayii*), 3 to 4 for each replicate. Photo from Replicate 3, 31/7/13





“ I like it – keep
it coming ! “

- Local riffle resident