Conveyor and Source of Sediment

Hockely Branch is the tributary of Clements Creek



Our Broken Stream Systems Function as Major Sources & Conveyors of Sediment, Phosphorus, Nitrogen



Adapted from Kondolf, M. (1997). Environmental Management, 21, 533-551.

Freeze/Thaw cycle during the winter chisels off pieces of the incised banks









Bank Pins installed in Clements Creek in February 2014 show 1-1.5" of erosion by March/April 2014

29 48 20 25 24 29 89 90

Illustrates that the area downstream of the confluence is not only a sediment transporter, but also a sediment source Spring and summer storms scour the banks, washing the freeze thaw debris downstream to be deposited downstream (March 30, 2014).





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The sediment does not stop at the headwaters near the marina –the finer grains of sediment flow further out into the creek and mainstem of the Severn

Downstream Effect of Channel Erosion in Severn Streams

Current Conditions Hockley Branch tributary to Clements Creek

